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CHECK-LIST  
OF BIRDS OF THE WORLD  
VOLUME VI

✓ MUSEUM OF COMPARATIVE ZOOLOGY  
HARVARD UNIVERSITY  
CAMBRIDGE, MASSACHUSETTS 02138

# CHECK-LIST OF BIRDS OF THE WORLD

VOLUME VI

BY

JAMES LEE PETERS

CURATOR OF BIRDS, MUSEUM OF COMPARATIVE ZOÖLOGY  
AT HARVARD COLLEGE

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CHECK-LIST  
OF BIRDS OF THE WORLD

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BY  
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HARVARD UNIVERSITY

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## INTRODUCTION

AS STATED in the introduction to Volume V, no major changes have been adopted in the general scope of this series.

In July 1944, the International Commission on Zoological Nomenclature republished Opinion 1 with editorial notes by Francis Hemming, Secretary to the Commission. This Opinion originally defined the word "indication" in Article 25. In his editorial notes Mr. Hemming pointed out that in cases where a generic name is proposed *without diagnosis or designation of type*, it is valid only if (a) it contains but a single species, in which case that species is the type by monotypy, or (b) if among its contained species is one so named that the principles of tautonymy may be invoked to determine the type. If, however, the new genus contains two or more species without diagnosis or designated type, and its type cannot be determined by tautonymy, then such a name is to be regarded as a *nomen nudum* and any subsequent author would be free to republish the name in question.

If this undoubtedly correct interpretation is accepted it will be necessary to change hundreds of generic names in all branches of zoology. For reasons stated beyond, it has not been adopted in this volume. It directly affects certain names in the following manner: in the present volume are a number of generic names commonly credited to Bonaparte, most of which were published in 1854 in the *Ateneo Italiano*, a rare publication which apparently is lacking in American libraries. Bonaparte's paper, however, is better known from a separately paged reprint entitled "Conspectus Volucrum Zygodactylorum." A glance at the "Conspectus" shows that many of the generic names there proposed by Bonaparte will not meet the requirements of Article 25, as defined in Opinion 1, although this fact was entirely overlooked until Mr. Hemming's notes appeared. Many of these names have been in continuous use for over ninety years and had been listed as valid in all standard "nomenclators."



After much deliberation, and on the advice of Mr. Hemming, it has seemed the wisest course not to change over in the middle of a series from the former (incorrect) interpretation of Article 25, to the present (correct) interpretation, especially so since a strongly backed petition has been submitted to the Commission praying that the International Zoological Congress be invited to amend Article 25 to restore officially the meaning commonly attributed to it. The question is at the moment *sub judice*. Should the International Zoological Congress ultimately decide to uphold the present interpretation, subsequent volumes of this Check-List will conform to the established usage, and I shall endeavor to publish elsewhere the changes in generic names which would then be necessary.

The woodpeckers have not been monographed since Hargitt did so for the eighteenth volume of the Catalogue of Birds in the British Museum, which was published in 1890; his arrangement was that followed by Sharpe in Volume II of his "Hand-list," appearing in 1900. Hargitt's classification is not in accord with modern concepts of the relationships within the Picidae, consequently a more up-to-date sequence of subfamilies and genera has been attempted here.

The true woodpeckers (subfamily Picinae) may be divided into two major groups on the basis of external foot structure; in one group the outer hind toe is not longer than the outer front toe, as opposed to another group in which the outer hind toe is definitely longer than the outer front toe. The latter condition is correlated with a bill having a wide "nasal shelf," and nostril situated at least midway between the culmen and the edge of the upper mandible, often nearer the edge of the mandible. The group in which the outer hind toe is not longer than the outer front toe has a narrower nasal shelf and the nostril is situated nearer the culmen. Dr. Burt has shown that as far as North American genera are concerned, these same external characters are correlated with certain anatomical features and should the same prove to be true of the remaining genera of woodpeckers, the Picinae could well be divided into two subfamilies. In this volume the group with the shorter hind toe and bill with narrow nasal shelf consists of the genera *Geocolaptes* to *Leuconerpes* inclu-

sive and the group with the longer hind toe and wider nasal shelf commences with *Sphyrapticus* and includes the balance of the genera.

The manuscript was completed and submitted for publication about the first of October 1947 and was revised to include new forms described up to 31 December 1946; a few forms appearing after 1 January 1947 were also included, but no real effort was made to search the literature appearing after the latter date.

For assistance in insuring the publication of this volume it is a pleasure to acknowledge needed aid from Mr. Boardman Conover, Mr. Jean Delacour, Mr. Rodolphe M. de Schauensee, Mr. James C. Greenway, Jr., Mr. Robert T. Moore, Mrs. Walter W. Naumburg, Dr. Max M. Peet, Mr. William H. Phelps, Dr. S. Dillon Ripley II, and Mrs. Carll Tucker.

For reading the typescript, either in whole or in part and for making valuable suggestions and corrections and for verifying references I again have to thank Dr. James P. Chapin, Mr. Herbert G. Deignan, Dr. Herbert Friedmann, Mr. Rodolphe M. de Schauensee, Dr. Ernst Mayr, Dr. Alexander Wetmore, and Dr. John T. Zimmer; my colleague, Mr. James C. Greenway, Jr., was always ready to discuss difficult cases as they arose.

Necessary comparative material has been loaned by the American Museum of Natural History, Academy of Natural Sciences of Philadelphia, Carnegie Museum, Chicago Natural History Museum, and the United States National Museum; my thanks are extended to the authorities of these institutions.

Mrs. R. Earl Bowen of Gettysburg, Pennsylvania, who has figured prominently in typing the copy for all the preceding volumes, typed the greater part of the manuscript for this one, the balance being done by Miss Ruth Inman, secretary to the Bird Department of the Museum of Comparative Zoölogy. As usual, Mrs. Peters was of invaluable assistance in reading the proof.

The index was prepared by Mrs. R. E. Bowen.

J. L. P.

7 June 1948



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CHECK-LIST  
OF BIRDS OF THE WORLD



## ORDER PICIFORMES

### SUBORDER GALBULAE

### SUPERFAMILY GALBULOIDEA

### FAMILY GALBULIDAE

#### GENUS GALBALCYRHYNCHUS DES MURS

*Galbalcyrrhynchus* Des Murs, Rev. Zool., 1845, p. 207. Type, by monotypy, *Galbalcyrrhynchus leucotis* Des Murs.

cf. Goeldi, Bol. Mus. Goeldi, 5, 1908, p. 77-91.

Sclater, Monogr. Jacamars and Puff-birds, 1882, p. xxiv; 53-55, pl. 17.

#### *Galbalcyrrhynchus leucotis leucotis* Des Murs

*Galbalcyrrhynchus leucotis* Des Murs, Rev. Zool., 1845, p. 207. (Bogotá, Colombia.)

Amazonian Colombia, Ecuador and extreme northeastern Perú, from Bogotá to the south bank of the Amazon, extending up the Ucayali to Sarayacu.

#### *Galbalcyrrhynchus leucotis purusianus* Goeldi

*Galbalcyrrhynchus purusianus* Goeldi, Verz. Neuen Thiere und Pflanzenformen etc., Suppl. 7, Feb. 1904, p. [3]. (Rio Purús.)

*Galbalcyrrhynchus* [sic] *purusianus* Goeldi, Compt. Rend. 6me Congr. Internat. Zool., Berne, 1904 (25 May, 1905 or later), p. 548. (Upper Rio Purús and Acre.)

*Galbalcyrrhynchus* [sic] *leucotis innotatus* H. von Ihering, Rev. Mus. Paulista, 6, 1904 (1905), p. 445. (Rio Juruá, Brazil.)

Eastern and southeastern Perú; western Brazil (Rio Juruá, Rio Purús); northern Bolivia (Rio Beni).

#### GENUS BRACHYGALBA BONAPARTE

*Brachygalba* Bonaparte, Ateneo Italiano, 2, 1854, p. 129. (Separately paged reprint, Consp. Vol. Zygod., p. 13.) Type, by subsequent designation, *Galbula albigularis* Spix. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 137.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 338-339. Hellmayr, Abh. K. Bay. Akad. Wiss., 22, 1906, p. 600-601.



—Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 425–426.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 369–370.

**Brachygalba lugubris fulviventris** Sclater

*Brachygalba fulviventris* Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 171 (in key), p. 172. (Bogotá, Colombia.)

Eastern base of the Eastern Andes of Colombia north of the Amazonian region (Buenavista, Villavicencio).

**Brachygalba lugubris caquetæ** Chapman

*Brachygalba fulviventris caquetæ* Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 338. (La Morelia, 600 feet, Río Bodoquera, Caquetá, Colombia.)

Eastern base of the Eastern Andes of Colombia (south of the range of *fulviventris*) southward through eastern Ecuador to eastern Perú.

**Brachygalba lugubris lugubris** (Swainson)

*Galbula lugubris* Swainson, Anim. in Menag., 1838 (1837), p. 329. (Conucou [*i.e.* Kanuku] Mts., British Guiana.)

Eastern and southern Venezuela and the Guianas, south to northern Brazil (Rio Branco, Rio Tocantins, Rio Acará).

**Brachygalba lugubris obscuriceps** Zimmer and Phelps

*Brachygalba lugubris obscuriceps* Zimmer and Phelps, Am. Mus. Novit., no. 1338, 1947, p. 3. (Rio Castanho, Base Canoas, Rio Padaniri, 160 meters, Brazil.)

Extreme southern Venezuela (Rio Ocamo, upper Orinoco) and northwestern Brazil (upper Rio Padaniri, Rio Negro).

**Brachygalba lugubris naumburgi** Chapman

*Brachygalba lugubris naumburgi* Chapman, Am. Mus. Novit., no. 450, 1931, p. 1. (Therezina, Piauí, Brazil.)

Northeastern Brazil in states of Maranhão and Piauí.

**Brachygalba lugubris melanosterna** Sclater

*Brachygalba melanosterna* Sclater, Proc. Zool. Soc. London, pt. 23, 1855, p. 15. (Goiás, Brazil, and Guayaros in Bolivia.)

Eastern Bolivia; central Brazil in states of Mato Grosso, Goiás, Pará, Minas Gerais and São Paulo.

**Brachygalba phaeonota** Todd

*Brachygalba phaeonota* Todd, Ann. Carnegie Mus., 30, 1943, p. 10. (Tonantins, Rio Solimões, Brazil.)

Known only from the unique type.

**Brachygalba goeringi** Sclater and Salvin

*Brachygalba goeringi* Sclater and Salvin, Proc. Zool. Soc. London, 1869, p. 253, pl. 18. (Near Maruria, north of Lake of Valencia, at foot of mtn. of Guiguc, Venezuela.)

Eastern Colombia in Dept. of Boyacá (Palmar) and northern Venezuela (Lake Valencia, El Trompillo).

**Brachygalba salmoni** Sclater and Salvin

*Brachygalba salmoni* Sclater and Salvin, Proc. Zool. Soc. London, 1879, p. 535. (Río Neche [*i.e.* Nechí], Antioquia, Colombia.)

Eastern Panamá; northwestern Colombia in Dept. of Antioquia.

**Brachygalba albogularis** (Spix)

*Galbula albogularis* Spix, Av. Bras., 1, 1824, p. 54, pl. 57, f. 1. (Pará = Río Javary.)

Known certainly only from the Rio Javary, on the Perú-Brazil boundary.

GENUS **JACAMARALCYON** LESSON

*Jacamaralcyon* Lesson, Traité d'Orn., livr. 3, 1830, p. 235. Type, by monotypy, *Jacamaralcyon brasiliensis* Lesson = *Galbula tridactyla* Vieillot.

*cf.* Pinto, Rev. Mus. Paulista, 22, 1938, p. 305–306.

**Jacamaralcyon tridactyla** (Vieillot)

*Galbula tridactyla* Vieillot, Nouv. Dict. Hist. Nat., 16, 1817, p. 445. (Brazil; Pinto, *op. cit.*, suggests São Paulo as restricted type locality.)

Southeastern Brazil in states of Minas Gerais, Rio de Janeiro, São Paulo and Paraná.

GENUS **GALBULA**<sup>1</sup> BRISSON

*Galbula* Brisson, Orn., 1, 1760, p. 42; 4, p. 86. Type, by tautonymy, *Galbula* = *Alcedo galbula* Linné.

*Psilopornis* Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 361. Type, by original designation, *Galbula albirostris* Latham.

*cf.* Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 336–337; 55, 1926, p. 351–353.

Hellmayr, Nov. Zool., 17, 1910, p. 388–390.

<sup>1</sup> Includes *Urogalba* Bonaparte, 1854, of Sharpe's Hand-list.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 361 (key, part) ; p. 365-368.

Todd, Ann. Carnegie Mus., 30, 1943, p. 4-10.

***Galbula albirostris chalcocephala* Deville**

*Galbula chalcocephala* Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 55. (Sarayacu, Río Ucayali.)

Amazonian Colombia, Ecuador and northeastern Perú; upper Rio Negro region of Brazil.

***Galbula albirostris albirostris* Latham**

*Galbula albirostris* Latham, Index Orn., 1, 1790, p. 245. (South America; Cayenne substituted as type locality by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 104.)

*Galbula surinamensis* Penard and Penard, Vog. Guyana, 1, 1908, p. 576. (Surinam, type from Lelydorp.)

Eastern Venezuela, the Guianas and northern Brazil.

***Galbula albirostris cyanicollis* Cassin**

*Galbula cyanicollis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 5, 1851, p. 154, pl. 7. (Pará, Brazil.)

Amazonian Brazil, south of the Amazon, from the Eirú and the Juruá to northern Maranhão.

***Galbula galbula* (Linné)<sup>1</sup>**

*Alcedo Galbula* Linné, Syst. Nat., ed. 12, 1, 1766, p. 182. Cayenne and Brazil, i.e. Cayenne.)

Extreme eastern Colombia, eastern and southern Venezuela, the Guianas, Brazil north and south of the Amazon to the lower Rio Madeira and Pará (Lago Grande).

***Galbula tombacea tombacea* Spix**

*Galbula tombacea* Spix, Av. Bras., 1, 1824, p. 55, pl. 58. ("In sylvis fl. Amazonum, = São Paulo de Olivença, Brazil, by designation of Todd, *antea*, p. 8.)

Amazonian Colombia, Ecuador and Perú; western Brazil south of the Amazon eastward at least to Tonantins.

***Galbula tombacea mentalis* Todd**

*Galbula tombacea mentalis* Todd, Ann. Carnegie Mus., 30, 1943, p. 9. (Caviana, opposite Manacapurú, Rio Solimões, Brazil.)

Both banks of the middle Amazon from the Rio Negro and the Rio Madeira, westward an undetermined distance.

<sup>1</sup> Replaces *Galbula viridis* (Linné) of Sharpe's Hand-list.

**Galbula cyanescens** Deville

*Galbula cyanescens* Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 56. (Banks of the Amazon; types from Sarayacu, Río Ucayali, Perú.)

Amazonian Perú south of the Amazon and adjacent parts of western Brazil, eastward at least to the Purús.

**Galbula pastazae** Taczanowski and Berlepsch

*Galbula pastazæ* Taczanowski and Berlepsch, Proc. Zool. Soc. London, 1885, p. 107. (Mapoto and Machay, Ecuador.)

Subtropical zone of eastern Ecuador; recorded from western Brazil (Arimã, on the Río Purús, tropical zone).

**Galbula ruficauda melanogenia** Sclater

*Galbula melanogenia* Sclater, in Jardine's Contr. Orn. for 1852, 1853, p. 61, pl. 90. ("S. A., locality uncertain"); p. 93. (Veragua.)

Humid tropical zone from Veracruz and Chiapas southward over all of Central America and the Pacific coast of Colombia and Ecuador.

**Galbula ruficauda ruficauda** Cuvier

*Galbula ruficauda* Cuvier, Règne Anim., 1, 1817 (1816), p. 420, based on LeVaillant, Ois. de Paradis etc., 2, pl. 50. (Guiana.)

Humid tropical zone of central Colombia in the Cauca and Magdalena valleys, Venezuela, the Rio Branco region of Brazil, and the Guianas; islands of Trinidad and Tobago.

**Galbula ruficauda pallens** Bangs

*Galbula ruficauda pallens* Bangs, Proc. Biol. Soc. Washington, 12, 1898, p. 133. (Santa Marta, Colombia.)

Arid tropical zone of northern Colombia west to the Río Sinú, in the lower Magdalena Valley and the Santa Marta region.

**Galbula ruficauda brevirostris** Cory

*Galbula ruficauda brevirostris* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1913, p. 287. (Encontrados, southwest of Lake Maracaibo, Venezuela.)

Humid tropical zone at the head of Lake Maracaibo, Venezuela.

**Galbula ruficauda rufoviridis** Cabanis

*Galbula rufoviridis* Cabanis, in Ersch and Gruber's Allg. Encyc. Wiss. und Künste, Sect. 1, 1851, Th. 52, p. 308. (Brazil.)

The greater part of Brazil south of the Amazon; Paraguay; northeastern Argentina in Gobernación de Misiones; northern Bolivia (Río Beni).

***Galbula ruficauda heterogyna* Todd**

*Galbula rufoviridis heterogyna* Todd, Proc. Biol. Soc. Washington, 45, 1932, p. 217. (Palmarito, Río San Julián, Chiquitos, Bolivia.)

Tropical Bolivia east of the Andes (except area occupied by *G. r. rufoviridis*); western Mato Grosso (Descalvados).

***Galbula leucogastra chalcothorax* Sclater**

*Galbula chalcothorax* Sclater, Proc. Zool. Soc. London, pt. 22, 1854 (1855), p. 110. (Quijos, Ecuador.)

Amazonian Ecuador and Perú; western Brazil on the Río Juruá.

***Galbula leucogastra leucogastra* Vieillot**

*Galbula leucogastra* Vieillot, Nouv. Dict. Hist. Nat., 16, 1817, p. 444. (South America, restricted to Cayenne by Hellmayr, *antea*, p. 390.)

The Guianas, southern Venezuela, and western Brazil from the upper Río Negro to the Purús and the Madeira.

***Galbula leucogastra viridissima* Griscom and Greenway**

*Galbula leucogaster viridissima* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 426. (Pinhy, Río Tapajóz, Brazil.)

Known only from the Río Tapajóz.

***Galbula dea dea* (Linné)**

*Alcedo Dea* Linné, Syst. Nat., ed. 10, 1, 1758, p. 116. (Surinam.)

Venezuela (upper Orinoco), the Guianas, northern Brazil north of the Amazon from the left bank of the Río Negro eastward.

***Galbula dea amazonum* (Sclater)**

*Urogalba amazonum* Sclater, Proc. Zool. Soc. London, pt. 23, 1855, p. 14. (Pará, Amazon River.)

Northern Bolivia on the Río Beni, and Brazil on the south bank of the Amazon and its southern affluents from the right bank of the Tapajóz to the Pará district.

***Galbula dea brunneiceps* (Todd)**

*Urogalba dea brunneiceps* Todd, Ann. Carnegie Mus., 30, 1943, p. 6. (Manacapurú, Río Solimões, Brazil.)

Eastern Perú east to the right bank of the Río Negro, and on the south bank of the Amazon between the Madeira and the Tapajóz.



**Galbula dea phainopepla** (Todd)

*Urogalba dea phainopepla* Todd, Ann. Carnegie Mus., 30, 1943, p. 6. (Arimã, Rio Purús, Brazil.)

Western Brazil south of the Amazon and west of the Rio Madeira.<sup>1</sup>

GENUS **JACAMEROPS** LESSON

*Jacamerops* Lesson, Traité d'Orn., livr. 3, 1830, p. 234. Type, by monotypy, *Alcedo grandis* Gmelin = *Alcedo aurea* P. L. S. Müller.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 362-365.

Todd, Ann. Carnegie Mus., 30, 1943, p. 1-3.

**Jacamerops aurea penardi** Bangs and Barbour

*Jacamerops aurea penardi* Bangs and Barbour, Bull. Mus. Comp. Zool., 65, 1922, p. 200. (Carillo, Costa Rica.)

Caribbean slope of Costa Rica, Panamá (both slopes) and western Colombia, east to the western slopes of the Eastern Andes.

**Jacamerops aurea aurea** (P. L. S. Müller)

*Alcedo aurea* P. L. S. Müller, Natursyst., Suppl., 1776, p. 94. (Berbice, British Guiana.)

*Galbula Boersii* Ranzani, Elem. di Zool., 3, 1821, pt. 2, p. 197. (Banda Island; error, I designate British Guiana.)

Eastern Colombia, Venezuela and the Guianas.

**Jacamerops aurea ridgwayi** Todd

*Jacamerops aurea ridgwayi* Todd, Ann. Carnegie Mus., 30, 1943, p. 2. (Miritituba, Rio Tapajóz, Brazil.)

Lower Amazon valley in Brazil from the Rio Negro and the Rio Tapajóz (and probably the Madeira), eastward.

**Jacamerops aurea isidori** Deville

*Jacamerops Isidori* Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 55. (Sarayacu and Pampa del Sacramento, Perú.)

Eastern Ecuador, eastern Perú, and western Brazil east to the Rio Purús and northern Bolivia on the Rio Beni.

<sup>1</sup> Bond and deSchauensee, Proc. Acad. Nat. Sci. Phila., 95, 1943, p. 213 point out that Porto Velho, "Bolivia" whence Cory records this bird is actually in Brazil.

## FAMILY BUCCONIDAE

GENUS **NOTHARCHUS** CABANIS AND HEINE

*Notharchus* Cabanis and Heine, Mus. Hein., Th. 4, 1862-63 (1863), Heft 1, p. 146, 149. Type, by subsequent designation, *Bucco hyperrhynchus* Sclater. (Sclater, Monogr. Jacamars and Puff-birds, 1882, p. xxxv.)

*Megacephalus* W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 39. Type, by monotypy, *Megacephalus bitorquatus* W. Bertoni = *Bucco swainsoni* G. R. Gray. Not *Megacephalus* Fitzinger, 1843.

cf. Chapman, Bull. Am. Mus. Nat. Hist., 55, 1926, p. 354-355. Pinto, Rev. Mus. Paulista, 22, 1938, p. 307-309.

Ridgway, Bull. U. S. Nat. Mus. no. 50, pt. 6, 1914, p. 373-380.

**Notharchus macrorhynchus cryptoleucus** van Rossem

*Notharchus hyperrhynchus cryptoleucus* van Rossem, Trans. San Diego Soc. Nat. Hist., 8, 1934, p. 3. (Barra de Santiago, sea level, Dept. Ahuachapán, El Salvador.)

Pacific lowlands of El Salvador and northwestern Nicaragua.

**Notharchus macrorhynchus hyperrhynchus** (Sclater)

*Bucco hyperrhynchus* Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 193, pl. 105. (Upper Amazon.)

*Bucco dysoni* Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 193. (Honduras.)

Southern México, Central America (except part occupied by *N. m. cryptoleucus*) and north-western South America, from Oaxaca to eastern Perú, eastern Bolivia, southern Venezuela and the Rio Tapajóz (left bank).

**Notharchus macrorhynchus macrorhynchus** (Gmelin)

*Bucco macrorhynchus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 406. (Cayenne.)

The Guianas, the Rio Negro and Rio Branco region of Brazil, south to the Amazon.

**Notharchus macrorhynchus paraensis** Sassi

*Notharchus macrorhynchus paraensis* Sassi, Orn. Monatsb., 40, 1932, p. 121. (Pará.)

Lower Amazon valley in State of Pará east of the Tapajóz, extending into the forest region of northern Maranhão.

**Notharchus macrorhynchos swainsoni** (G. R. Gray)

*Bucco swainsoni* G. R. Gray, Gen. Bds., 1, 1846, p. 74. (Brazil.)

New name for *Tamatia macrorhynchus* Swainson, Zool. Illustr. pl. 99, not *Bucco macrorhynchos* Gmelin.

Southeastern Brazil in states of Espírito Santo, Rio de Janeiro, São Paulo, Paraná and Santa Catarina; eastern Paraguay; north-eastern Argentina in Gobernación de Misiones.

**Notharchus pectoralis** (G. R. Gray)

*Bucco pectoralis* G. R. Gray, Gen. Bds., 1, 1846, pl. 26. (No locality.)

Panamá from the Canal Zone eastward; central Colombia to northwestern Ecuador.

**Notharchus ordii** (Cassin)

*Bucco Ordii* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 5, 1851, p. 154, pl. 8. (Venezuela.)

Southern Venezuela (Mt. Duida), northwestern Brazil (upper Rio Negro, Rio Cussary, Rio Solimões); recorded from Cayenne, doubtless erroneously.

**Notharchus tectus subtectus** (Sclater)

*Bucco subtectus* Sclater, Proc. Zool. Soc. London, pt. 28, 1860, p. 296. (Esmeraldas, western Ecuador.)

Panamá from the Canal Zone eastward, Colombia west of the Magdalena River, and southwestern Ecuador; recorded also from eastern Costa Rica and Veraguas.

**?Notharchus tectus picatus** (Sclater)

*Bucco picatus* Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 194, (Chamicuros, Perú.)

Eastern Ecuador and eastern Perú.

**Notharchus tectus tectus** (Boddaert)

*Bucco tectus* Boddaert, Table Pl. enlum., 1783, p. 43. (Cayenne, ex Daubenton, pl. 688, f. 2.)

Southern Venezuela, the Guianas, northern Brazil to the south bank of the lower Amazon, and extending to Maranhão.

GENUS **BUCCO** BRISSON

*Bucco* Brisson, Orn., 1, 1760, p. 42; 4, p. 91, 92. Type, by tautonymy, *Bucco* Brisson = *Bucco capensis* Linné.

*Nystactes* Gloger, Froriep's Notizen, 16, 1827, col. 277. Type, by monotypy, *Bucco somnolentus* [Lichtenstein] = *Bucco tamatia* Gmelin.

*Argicus* Cabanis and Heine, Mus. Hein., Th. 4, 1862-63 (1863), Heft 1, p. 148. New name for *Cyphos* Spix, 1824, not *Cyphus* Schönherr, 1823. Type, by monotypy, *Cyphos macrodactylus* Spix.

cf. Hellmayr, Nov. Zool., 17, 1910, p. 391-392.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 371-372.

***Bucco macrodactylus* (Spix)**

*Cyphos macrodactylus* Spix, Av. Bras., 1, 1824, p. 51, pl. 39, f. 2. ("In sylvis flumen Amazonum"; restricted to Fonte Boa, Brazil, by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 102.)

*Argicus macrodactylus caurensis* Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 389. (La Unión, Caura River, Venezuela.)

Tropical zone of eastern Colombia, eastern Ecuador and eastern Perú, the lower Orinoco valley in Venezuela, western Brazil on the lower Solimões and the Rio Juruá and northern Bolivia on the Río Beni and in Dept. of Santa Cruz.

***Bucco tamatia pulmentum* Sclater**

*Bucco pulmentum* Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 194, pl. 106. (Eastern Perú and region of the upper Amazon: Pebas, Chamicurros.)

Amazonian Colombia (Leticia), eastern Ecuador, eastern Perú and adjacent parts of northwestern Brazil to the Rio Purús.

***Bucco tamatia tamatia* Gmelin**

*Bucco Tamatia* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 405. (Cayenne and Brazil.)

Extreme eastern Colombia (Maipures), eastern Venezuela, the Guianas and adjacent parts of northern Brazil; also along the south bank of the Amazon from the right bank of the Rio Madeira to the Tapajóz.

***Bucco tamatia inexpectatus* (Todd)**

*Nystactes tamatia inexpectatus* Todd, Ann. Carnegie Mus., 30, 1943, p. 14. (Manacapurú, Rio Solimões, Brazil.)

Known only from the north bank of the Amazon, west of the Rio Negro.

***Bucco tamatia punctuliger* (Todd)**

*Nystactes tamatia punctuliger* Todd, Ann. Carnegie Mus., 30, 1943, p. 14. (Caviana, Rio Solimões, Brazil.)

Known only from the south bank of the Amazon between the Purús and the Madeira.

**Bucco tamatia hypneus** (Cabanis and Heine)

*Chaunornis hypneus* Cabanis and Heine, Mus. Hein., Th. 4, 1862-63 (1863), Heft 1, p. 145, note. (Pará.)

Right bank of the lower Amazon from the Tapajóz to the Capim, and islands in the Amazon Delta.

**Bucco tamatia interior** (Cherrie and Reichenberger)

*Nystactes tamatia interior* Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 1921, p. 3. (Campos Novos, Cerro do Norte, Mato Grosso.)

Northern and western Mato Grosso.

**Bucco noanamae** Hellmayr

*Bucco noanamae* Hellmayr, Bull. Brit. Orn. Cl., 25, 1909, p. 20. (Noanamá, 100 feet, Río San Juan, Chocó, Colombia.)

Confined to the headwaters of the San Juan and Atrato rivers in western Colombia.

**Bucco capensis** Linné

*Bucco capensis* Linné, Syst. Nat., ed. 12, 1, 1766, p. 168. (Cape of Good Hope, error = Guiana *ex* Brissonian reference.)<sup>1</sup>

Southeastern Colombia, eastern Ecuador and northeastern Perú, eastward through southern Venezuela and northern Brazil (both banks of the Amazon) to Cayenne and Belém.

GENUS **NYSTALUS** CABANIS AND HEINE

*Nystalus* Cabanis and Heine, Mus. Hein., Th. 4, 1862-63 (1863), Heft 1, p. 139. Type, by subsequent designation, *Alcedo maculata* Gmelin. (Sclater, Monogr. Jacamars and Puff-birds, pt. 4, 1882, p. xxxv.)

*Ecchaunornis* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 97. Type, by original designation, *Bucco radiatus* Sclater.

*cf.* Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 341-342.

Cherrie and Reichenberger, Am. Mus. Novit., no. 58, 1923, p. 6-8.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 426-428.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 384-386.

**Nystalus radiatus** (Sclater)

*Bucco radiatus* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 122, pl. 50. (Colombia = Magdalena Valley, *vide* Chapman, *antea*.)

<sup>1</sup> Replaces *Bucco collaris* Latham of Sharpe's Hand-list.



Western Panamá to the lower Cauca and Magdalena valleys in Colombia, extending southward along the Pacific coast of Ecuador to Guayaquil.

***Nystalus chacuru uncistrotris* (Stolzmann)**

*Ecchaunornis chacuru uncistrotris* Stolzmann, Ann. Zool. Mus. Polonici Hist. Nat., 5, 1926, p. 214. (Santa Ana, Perú.)

Eastern Perú and eastern Bolivia.

***Nystalus chacuru chacuru* (Vieillot)**

*Bucco chacuru* Vieillot, Nouv. Dict. Hist. Nat., 3, 1816, p. 239. (Paraguay.)

Campo region of Brazil south of the Amazon; Paraguay; north-eastern Argentina.

***Nystalus striolatus striolatus* (Pelzeln)**

*Bucco striolatus* "Natterer" Pelzeln, Sitzungsber. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., 20, 1856, p. 500. (Engenho do Gama and No Dourado, Mato Grosso.)

Eastern Ecuador, eastern Perú, Bolivia and western Brazil in State of Mato Grosso.

***Nystalus striolatus torridus* Bond and de Schauensee**

*Nystalus striolatus torridus* Bond and de Schauensee, Notulae Naturae, no. 50, 1940, p. 1. (Rio Guamá, Belém, Pará.)

Eastern parts of Pará, south of the Amazon.

***Nystalus maculatus maculatus* (Gmelin)**

*Alcedo maculata* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 451. (Brazil.)

*Nystalus maculatus nuchalis* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 398. (Juá, near Iguatú, Ceará.)

Eastern Brazil south of the Amazon and east of the Rio Tapajóz, south to Minas Gerais and Baía.

***Nystalus maculatus parvirostris* (Hellmayr)**

*Bucco maculatus parvirostris* Hellmayr, Nov. Zool., 15, 1908, p. 86. (Rio Araguaya, Goiás.)

Central Brazil in states of Goiás, Minas Gerais and southeastern part of Mato Grosso.

***Nystalus maculatus pallidigula* Cherrie and Reichenberger**

*Nystalus maculatus pallidigula* Cherrie and Reichenberger, Am. Mus. Novit., no. 6, 1923, p. 6. (Urucúm, near Corumbá, Mato Grosso.)

Western Mato Grosso.



**Nystalus maculatus striatipectus** (Sclater)

*Bucco striatipectus* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Bolivia.)

Eastern and southern Bolivia in depts. of Misque, Santa Cruz, Cordilleros and Tarija; northern Argentina in provs. of Jujuy, Salta, Tucumán, Santiago del Estero and Chaco.

GENUS **HYPNELUS** CABANIS AND HEINE

*Hypnelus* Cabanis and Heine, Mus. Hein., Th. 4, 1862-63 (1863), Heft 1, p. 143. Type, by subsequent designation, *Tamatia bicincta* Gould. (Sclater, Monogr. Jacamars and Puff-birds, pt. 4, 1882, p. xxxv).

cf. Barnés and Phelps, Bol. Soc. Venezolana Cienc. Nat., no. 46, 1940, p. 24-25.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 380-383.

**Hypnelus ruficollis ruficollis** (Wagler)

*Capito ruficollis* Wagler, Isis von Oken, 22, 1829, col. 658. (México, error = Cartagena, Colombia.)

Arid parts of northern Colombia from the lower Magdalena Valley to the Santa Marta region; western Venezuela in the region west of Lake Maracaibo.

**Hypnelus ruficollis decolor** Todd and Carriker

*Hypnelus ruficollis decolor* Todd and Carriker, Ann. Carnegie Mus., 14, 1922, p. 228. (Rio Hacha, Colombia.)

Guajira Peninsula, Colombia, and northwestern Venezuela in State of Falcón.

**Hypnelus ruficollis coloratus** Ridgway

*Hypnelus ruficollis coloratus* Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 382 (in key). (Encontrados, Venezuela.)

Western Venezuela in the humid region south of Lake Maracaibo.

**Hypnelus bicinctus bicinctus** (Gould)

*Tamatia bicincta* Gould, Proc. Zool. Soc. London, pt. 4, 1836 (1837), p. 80. (Cayenne? i.e. Venezuela.)

Northern Venezuela and the Orinoco Valley below Caicara.

**Hypnelus bicinctus stoicus** Wetmore

*Hypnelus bicinctus stoicus* Wetmore, Smiths. Misc. Coll., 98, 1939, no. 4, p. 1. (Margarita Island.)

Confined to Margarita Island off the north coast of Venezuela.

GENUS **MALACOPTILA** G. R. GRAY

*Malacoptila* G. R. Gray, List Gen. Bds., ed. 2, 1841, p. 13. Type, by subsequent designation, *Bucco fuscus* Gmelin (G. R. Gray, Gen. Bds., 1, 1846, p. [74]).

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 342-343; 55, 1926, p. 356-357.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 313-314.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 387-392.

**Malacoptila striata minor** Sassi

*Malacoptila torquata minor* Sassi, Journ. f. Orn., 59, 1911, p. 181. (Miritiba, Maranhão.)

Eastern Brazil in State of Maranhão.

**Malacoptila striata striata** (Spix)

*Bucco torquatus* "Wagler" Hahn and Küster, Voeg. aus Asien, Afrika, Amerika und Neuholland, Lief. 13, 1822, pl. 5 and text. (Brazil.) Not *Bucco torquatus* Dumont, 1805.

*Bucco striatus* Spix, Av. Bras., 1, 1824, p. 52, pl. 40, f. 2. (Rio de Janeiro and Baía.)

Southeastern Brazil from southern Baía and eastern Minas Gerais to Santa Catarina.

**Malacoptila fusca fusca** (Gmelin)

*Bucco fuscus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 408. (Cayenne.)

The Guianas, southeastern Colombia, eastern Ecuador, northeastern Perú, and Brazil north of the Amazon and east to Obidos.

**Malacoptila fusca semicincta** Todd

*Malacoptila semicincta* Todd, Proc. Biol. Soc. Washington, 38, 1925, p. 111. (Hyutanahan, Rio Purús, Brazil.)

Recorded from southern Perú (north slopes of the Sierra de Carabaya), western Brazil (Rio Purús) and northern Bolivia (Rio Beni).

**Malacoptila fulvogularis substriata** Sclater

*Malacoptila substriata* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123, pl. 51. (Colombia; Llanos de Meta, suggested as type locality by de Schauensee, 1946.)

Colombia; known from Bogotá trade skins and a specimen from the Llanos de Meta.

**Malacoptila fulvogularis huilae** de Schauensee

*Malacoptila fulvogularis huilae* de Schauensee, Notulae Naturae, no. 163, 1946, p. 4. (El Isno, Dept. of Huila, Colombia.)

Known only from the head of the Magdalena Valley, Colombia.

**Malacoptila fulvogularis fulvogularis** Sclater

*Malacoptila fulvogularis* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Bolivia.)

*Malacoptila fulvigularis melanopogon*, Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 37. (Garita del Sol and Maraynioc, Perú.)

Subtropical zone of the Andes from eastern Ecuador to Bolivia.

**Malacoptila rufa rufa** (Spix)

*Bucco rufus* Spix, Av. Bras., 1, 1824, p. 52, pl. 40, f. 1. (Amazon.)

Eastern Ecuador, eastern Perú, western Brazil south of the Amazon to the left bank of the Madeira.

**Malacoptila rufa brunnescens** Zimmer

*Malacoptila rufa brunnescens* Zimmer, Am. Mus. Novit., no. 500, 1931, p. 3. (Caxiricatuba, right bank of the Rio Tapajóz, Brazil.)

Southern banks and affluents of the middle Amazon from the Madeira to the Guamá.

**Malacoptila panamensis inornata** (DuBus)

*Monasa inornata* DuBus, Bull. Acad. Roy. Sci. Belg., 14, Aug., 1847, pt. 2, p. 107. (Guatemala.)

Tropical zone of the Caribbean slope of Central America from Guatemala to northern Nicaragua.

**Malacoptila panamensis fuliginosa** Richmond

*Malacoptila fuliginosa* Ridgway MS. Richmond, Proc. U. S. Nat. Mus., 16, 1893, p. 512, in text. (Río Escondido, Nicaragua.)

Tropical zone of southeastern Nicaragua, northwestern Costa Rica, and eastern Costa Rica to the Chiriquí Lagoon region of western Panamá.

**Malacoptila panamensis panamensis** Lafresnaye

*Malacoptila panamensis* Lafresnaye, Rev. Zool., March, 1847, p. 79. (Panamá.)

*Malacoptila costaricensis* Cabanis, Journ. f. Orn., 10, 1862, p. 172. (Costa Rica; the type probably came from Guaitil in central-western Costa Rica.)<sup>1</sup>

<sup>1</sup> *vide* van Rossem, Bull. Mus. Comp. Zoöl., 77, 1934, p. 409.

*Malacoptila panamensis* Var. *typica* Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 197. (Panamá.)

Tropical zone of southwestern Costa Rica through northwestern Panamá to the Canal Zone and Darien; northwestern Colombia south to the Baudó Mts.

***Malacoptila panamensis poliopis* Sclater**

*Malacoptila poliopis* Sclater, Proc. Zool. Soc. London, 1862, p. 86, pl. 8. (Esmeraldas, Ecuador.)

Tropical zone of southwestern Colombia, and western Ecuador from San José to Portovelo.

***Malacoptila panamensis magdalenae* Todd**

*Malacoptila panamensis magdalenae* Todd, Ann. Carnegie Mus., 30, 1943, p. 15. (El Tambor, Santander, Colombia.)

Tropical zone of the Magdalena Valley in Colombia.

***Malacoptila mystacalis* (Lafresnaye)**

*Monasa mystacalis* Lafresnaye, Rev. et Mag. Zool. (2), 2, 1850, p. 215. (Colombia; restricted to Valparaiso, Santa Marta, by Chapman, *antea*, 1917, p. 324.)

*Malacoptila aspersa* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 123. (Venezuela.)

Subtropical<sup>1</sup> zone of all three ranges of the Andes and of the Santa Marta Mountains of Colombia, and the mountains of northwestern Venezuela.

GENUS **MICROMONACHA** SCLATER

*Micromonacha* Sclater, Monograph Jacamars and Puff-birds, pt. 5, July, 1881, p. 131, pl. 44; Proc. Zool. Soc. London, Oct., 1881, p. 776, f. 1; p. 777. (Type, by monotypy, *Bucco lanceolata* Deville).

cf. Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 199.

?***Micromonacha lanceolata austinsmithi* Dwight and Griscom**

*Micromonacha lanceolata austinsmithi* Dwight and Griscom, Am. Mus. Novit., no. 142, 1924, p. 2. (Carillo, Costa Rica.)

Eastern Costa Rica (Carillo) and western Panama (Río Calovevora). Doubtfully distinct from *M. l. lanceolata*.

***Micromonacha lanceolata lanceolata* (Deville)**

*Bucco lanceolata* Deville, Rev. et Mag. Zool. (2), 1, 1849, p. 56. (Pampa del Sacramento, upper Amazon.)

<sup>1</sup> This bird is probably a zonal representative of *M. panamensis*.

Tropical and subtropical zones of western Colombia from the headwaters of the Río San Juan south to Buenavista; eastern Ecuador, eastern Perú and adjacent parts of western Brazil (Río Juruá).

GENUS **NONNULA** SCLATER

*Nonnula* Sclater, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 124. Type, by original designation, *Bucco rubecula* Spix.

*Microtrogon* W. Bertoni, An. Cient. Paraguayos, (1), no. 1, 1901, p. 41. Type, present designation, *Microtrogon fulvescens* Bertoni = *Bucco rubecula* Spix.<sup>1</sup>

cf. Hellmayr, Nov. Zool., 17, 1910, p. 393-395.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 315-316.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 399-402.

**Nonnula rubecula duidae** Chapman

*Nonnula duidae* Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 195. (Foot of Mt. Duida, 700 feet, Venezuela.)

Southern Venezuela in the region at the base of Mt. Duida.

**Nonnula rubecula cineracea** Sclater

*Nonnula cineracea* Sclater, Proc. Zool. Soc. London, 1881, p. 778. (Río Javary, Perú.)

Western Brazil and adjacent parts of northeastern Perú (Río Javary, upper Rio Negro, Rio Madeira, Rio Juruá, Rio Purús, Rio Solimões).

**Nonnula rubecula simplex** Todd

*Nonnula rubecula simplex* Todd, Ann. Carnegie Mus., 25, 1937, p. 248. (Villa Braga, Rio Tapajóz, Brazil.)

Northeastern Brazil in State of Pará (Rio Jamundá, Rio Tapajóz).

**Nonnula rubecula rubecula** (Spix)

*Bucco rubecula* Spix, Av. Bras., 1, 1824, p. 51, pl. 39, f. 1. (Malhada, Rio São Francisco, Brazil.)

*Microtrogon fulvescens* W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 41. (Puerto Bertoni, Paraguay.)

<sup>1</sup> *Microtrogon* Bertoni was published with two contained species. Of these the first is *Microtrogon fulvescens* Bertoni (= *Bucco rubecula* Spix) which is described in the fullest detail; the second is *Microtrogon galbuloides* Bertoni so incompletely described that it has never been satisfactorily identified with any known species, in fact it is not clear whether the description was based on a bird seen but not collected, or from memory of a specimen that had been lost; there is no assurance that it is a buconid at all.



*Nonnula hellmayri* Chrostowski, Ann. Mus. Zool. Polonici Hist. Nat., 1, 1921, p. 39. (Vera Guarany, Paraná, Brazil.)

Southeastern Brazil in states of Baía, Goiás, Minas Gerais, Rio de Janeiro, São Paulo and Paraná; Paraguay; northeastern Argentina in Gobernación de Misiones.

***Nonnula sclateri* Hellmayr**

*Nonnula sclateri* Hellmayr, Bull. Brit. Orn. Cl., 19, 1907, p. 55. (Humaythá, Rio Madeira, Brazil.)

Western Brazil on the Rio Juruá, Rio Eirú, Rio Purús and the upper Rio Madeira.

***Nonnula brunnea* Sclater**

*Nonnula brunnea* Sclater, Ibis, 1881, p. 600. (Sarayacu, Ecuador.)

Tropical zone of Colombia (except western), eastern Ecuador and eastern Perú.

***Nonnula frontalis frontalis* (Sclater)**

*Malacoptila frontalis* Sclater, Ann. and Mag. Nat. Hist. (2), 13, 1854, p. 479. (Colombia.)

Panamá from the Canal Zone eastward; northern Colombia eastward through the lower Cauca and Magdalena valleys to the Lebrija Valley, Santander.

***Nonnula frontalis pallescens* Todd**

*Nonnula frontalis pallescens* Todd, Proc. Biol. Soc. Washington, 32, 1919, p. 116. (Fundación, Santa Marta, Colombia.)

Littoral of northeastern Colombia.

***Nonnula ruficapilla rufipectus* Chapman**

*Nonnula ruficapilla rufipectus* Chapman, Am. Mus. Novit., no. 332, 1928, p. 8. (Puerto Indiana, Perú.)

Northeastern Perú north of the Amazon (Ríos Napo and Amazon).

***Nonnula ruficapilla ruficapilla* (Tschudi)**

*Lypornix ruficapilla* Tschudi, Arch. Naturg., 10, 1844, Bd. 1, p. 300. (Perú, = Vitoc Valley.)

Eastern Perú in the valleys of the Marañon, Huallaga and the Ucayali; western Brazil on the Rio Juruá.

***Nonnula ruficapilla nattereri* Hellmayr**

*Nonnula ruficapilla nattereri* Hellmayr, Anz. Orn. Ges. Bayern, no. 5, 19 Dec., 1921, p. 42. (Villa Maria [now São Luiz de Cáceres], Rio Paraguay, Mato Grosso.)



*Nonnula ruficapilla pallida* Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 28 Dec., 1921, p. 4. (Tapirapoan, Mato Grosso.)

Western Mato Grosso on the upper Guaporé and upper Paraguay drainage.

**Nonnula amaurocephala** Chapman

*Nonnula amaurocephala* Chapman, Am. Mus. Novit., no. 2, 1921, p. 2. (Manacapurú, Rio Solimões, Brazil.)

Western Brazil on the left bank of the Rio Solimões (Codajáz, Manacapurú).

GENUS **HAPALOPTILA** SCLATER

*Hapaloptila* Sclater, Proc. Zool. Soc. London, Oct., 1881, p. 776; p. 777, f. 2; Monograph Jacamars and Puff-birds, pt. 6, Nov., 1881, p. 143, pl. 47. Type, by original designation and monotypy, *Malacoptila castanea* Verreaux.

cf. Sclater, Cat. Bds. Brit. Mus., 19, 1891, p. 202.

**Hapaloptila castanea** (J. Verreaux)

*Malacoptila castanea* J. Verreaux, Rev. et Mag. Zool. (2), 18, 1866, p. 355, pl. 19. (Bogotá; region of Frontino, Antioquia, Colombia, substituted by Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 405, note b.)

Subtropical zone of western Colombia and western Ecuador.

GENUS **MONASA** VIEILLOT

*Monasa* Vieillot, Analyse, 1816, p. 27. Type, by monotypy, Coucou noir de Cayenne of Buffon = *Cuculus ater* Boddaert.

cf. Griscom, Auk, 50, 1933, p. 303-304.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 392-402.

**Monasa atra** (Boddaert)

*Cuculus niger* P. L. S. Müller, Natursyst., Suppl., 1776, p. 90. (Cayenne.) Not *Cuculus niger* Linné, 1758.

*Cuculus ater* Boddaert, Table Pl. enlum., 1783, p. 30. (Cayenne, ex Daubenton, pl. 512.)

Southern Venezuela, the Guianas and northern Brazil from the Rio Negro to Obidos.

**Monasa nigrifrons nigrifrons** (Spix)

*Bucco nigrifrons* Spix, Av. Bras., 1, 1824, p. 53, pl. 41, f. 2. (Rio Solimões, Brazil.)

*Monasa nigrifrons itapurana* H. and R. Ihering, Cat. Fauna Braz., 1, 1907, p. 177, 413. (Itapura, São Paulo.)

Southeastern Colombia, eastern Ecuador and eastern Perú, extending north of the Amazon to the Rio Negro and south of the Amazon east to Piauí, south to Mato Grosso, São Paulo and Minas Gerais.

***Monasa nigrifrons canescens* Todd**

*Monasa nigrifrons canescens* Todd, Ann. Carnegie Mus., 25, 1937, p. 247. (Santa Cruz de la Sierra, Bolivia.)

Tropical Bolivia east of the Andes.

***Monasa morphoeus grandior* Sclater and Salvin**

*Monasa grandior* Sclater and Salvin, Proc. Zool. Soc. London, 1868, p. 327. (Angostura, Costa Rica.)

Caribbean slope of Nicaragua, Costa Rica and northwestern Panamá.

***Monasa morphoeus fidelis* Nelson**

*Monasa fidelis* Nelson, Smiths. Misc. Coll., 56, 1912, no. 37, p. 1. (Cerro Azul, 800 feet, Panamá.)

*Monasa similis* Nelson, Smiths. Misc. Coll., 56, 1912, no. 37, p. 1. (Cerro Azul, 800 feet, Panamá.)

Eastern Panamá: Cerro Azul, Río Chepo.

***Monasa morphoeus pallescens* Cassin**

*Monasa pallescens* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1860, p. 134. (Río Truando, Colombia.)

*Monasa pallescens minor* Nelson, Proc. Biol. Soc. Washington, 26, 1913, p. 67. (Marraganti, eastern Panamá.)

Panamá from the Río Chimán eastward; northwestern Colombia in the Atrato and upper San Juan valleys.

***Monasa morphoeus sclateri* Ridgway**

*Monasa sclateri* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 89. (Central Colombia; type a Bogotá trade skin.)

Northern Colombia in the lower Cauca and Magdalena valleys.

***Monasa morphoeus peruana* Sclater**

*Monasa peruana* Sclater, Proc. Zool. Soc. London, pt. 23, 1855 (1856), p. 194. (Upper Amazon in eastern Perú; type from Chamicurros, Ucayali Valley.)

Southeastern Colombia, eastern Ecuador, eastern Perú, and northwestern Brazil east to the Rio Negro and the lower Madeira.

**Monasa morphoeus morphoeus** (Hahn and Küster)

*Bucco Morphoeus* "Wagler" Hahn and Küster, Voeg. aus Asien, Afrika, Amerika and Neuholland, Lief. 14, 1823, pl. 2 and text. (Brazil.)

*Monasa rikeri* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 88. (Diamantina, lower Amazon, Brazil.)

Amazonian Brazil south of the Amazon from the Tapajóz to the Capim; occurring also in the states of Piauí, Goiás, Baía, Minas Gerais, Espirito Santo and Rio de Janeiro.

**Monasa morphoeus boliviana** Carriker

*Monasa morphoeus* [sic] *bolivianus* [sic] Carriker, Proc. Acad. Nat. Sci. Philadelphia, 87, 1935, p. 320. (Rurrenabaque, Río Beni, Bolivia.)

Northeastern Bolivia (Río Beni, Río Coroico).

**Monasa flavirostris** Strickland

*Monasa flavirostris* Strickland, in Jardine's Contr. Orn. for 1850, p. 47, pl. 48. (Perú.)

*Monasa axillaris* Lafresnaye, Rev. et Mag. Zool. (2), 2, April, 1850, p. 216. (Rio Negro.)

Eastern Colombia, eastern Ecuador, eastern Perú and western Brazil (Rio Negro, Rio Purús).

GENUS **CHELIDOPTERA** GOULD

*Chelidoptera* Gould, Proc. Zool. Soc. London, pt. 4, 1836 (1837), p. 81. Type, by monotypy, *Lypornix tenebrosa* Wagler = *Cuculus tenebrosus* Pallas.

cf. Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 429-430.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 319-320.

**Chelidoptera tenebrosa tenebrosa** (Pallas)

*Cuculus tenebrosus* Pallas, Neue Nordische Beyträge, 3, 1782, p. 2, pl. 1, f. 1. (Surinam.)

*Chelidoptera tenebrosa pallida* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1913, p. 288. (Empalado Savannas, thirty miles east of Maracaibo, Venezuela.)

Venezuela, the Guianas, eastern Colombia, eastern Ecuador, eastern Perú, northern Bolivia, northern and central Brazil south to Mato Grosso, Goiás and northwestern Baía.

**Chelidoptera tenebrosa brasiliensis** Sclater

*Chelidoptera brasiliensis* Sclater, Cat. Am. Bds., 1862, p. 275. (Southeastern Brazil.)

Eastern and southeastern Brazil from Alagoas (possibly Pernambuco) to São Paulo.

## SUPERFAMILY CAPITONOIDEA

### FAMILY CAPITONIDAE

#### GENUS CAPITO VIEILLLOT

*Capito* Vieillot, *Analyze*, 1816, p. 27. Type, by monotypy, *Tamatia à tête et gorge rouges* of Buffon = *Bucco niger* P. L. S. Müller.

*Parabarbatus* Miranda Ribeiro, *Arch. Mus. Nac. Rio de Janeiro*, 28, 1926, p. 12, 13. Type, by monotypy, *Parabarbatus dayi* (Cherrie) = *Capito dayi* Cherrie.

cf. Berlioz, *Ois. et Rev. Franç. d' Orn. (n.s.)*, 7, 1937, p. 231-239.

Chapman, *Am. Mus. Novit.*, no. 335, 1928, p. 1-21.

Ridgway, *Bull. U. S. Nat. Mus.*, no. 50, pt. 6, 1914, p. 319-324.

Ripley, *Auk*, 62, 1945, p. 547-549.

#### *Capito aurovirens* (Cuvier)

*Bucco aurovirens* Cuvier, *Règne Anim., nouv., éd.*, 1, 1829, p. 458. (Perú *ex* LeVaillant, *Ois de Paradis*, pl. E.)

Amazonian Colombia, Ecuador and Perú; northwestern Brazil to the lower Solimões.

#### *Capito maculicoronatus maculicoronatus* Lawrence

*Capito maculicoronatus* Lawrence, *Ann. Lyc. Nat. Hist. N. Y.*, 7, 1861, p. 300. (Atlantic side of the Isthmus of Panamá.)

Western Panamá from Veraguas to the Canal Zone.

#### *Capito maculicoronatus pirrensis* Nelson

*Capito maculicoronatus pirrensis* Nelson, *Smiths. Misc. Coll.*, 60, 1913, no. 21, p. 1. (Cana, 1800 feet, eastern Panamá.)

Pacific slope of Darien and adjacent parts of northwestern Colombia (Río Salaquí).

#### *Capito maculicoronatus melas* Griscom

*Capito maculicoronatus melas* Griscom, *Bull. Mus. Comp. Zoöl.*, 72, 1932, p. 340. (Puerto Obaldia, Caribbean slope of Darien, Panamá.)

Caribbean slope of eastern Panamá.

**Capito maculicoronatus rubrilateralis** Chapman

*Capito maculicoronatus rubrilateralis* Chapman, Bull. Am. Mus. Nat. Hist., 31, 1912, p. 144. (Juntas de Tamaná, 800 feet, Colombia.)

Tropical zone of western Colombia south to Buenaventura.

**Capito squamatus** Salvin

*Capito squamatus* Salvin, Ibis, 1876, p. 494, pl. 14. (Santa Rita, Ecuador.)

Southwestern Colombia and western Ecuador.

**Capito hypoleucus** Salvin

*Capito hypoleucus* Salvin, Bull. Brit. Orn. Cl., 7, 1897, p. xvi. (Valdivia, 3800 feet, Antioquia, Colombia.)

Lower Cauca—Magdalena region of Colombia.

**Capito dayi** Cherrie

*Capito dayi* Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 394. (Porto Velho, near San Antonio, Rio Madeira, Brazil.)

Western Brazil on the Rio Jamary, Rio Jaurú and Rio Madeira.

**Capito quinticolor** Elliot

*Capito quinticolor* Elliot, Nouv. Arch. Mus. Hist. Nat. Paris, 1, 1865, Bull., p. 76, pl. 4, fig. 1. (Colombia.)

Tropical zone of the Pacific Coast of Colombia; five specimens known.

**Capito niger niger** (P. L. S. Müller)

*Bucco niger* P. L. S. Müller, Natursyst., Suppl., 1776, p. 89. (No locality = Cayenne, *ex* Buffon.)

The Guianas, and northeastern Brazil north of the Amazon (Obidos, Rio Jamundá, Lago Cupeva).

**Capito niger punctatus** (Lesson)

*Bucco punctatus* Lesson, Traité d'Orn., livr. 3, 1830, p. 165. (No locality; Buenavista, Colombia suggested by Chapman, 1928, p. 10.)

*Capito auratus macintyreii* Brodkorb, Proc. Biol. Soc. Washington, 52, 1939, p. 135. (Andoas, Río Pastaza, Ecuador.)

*Capito auratus conjunctus* Brodkorb, Proc. Biol. Soc. Washington, 52, 1939, p. 135. (Pozuzo, Perú.)

Tropical zone at the eastern base of the Andes from Colombia (Buenavista) to Perú (junction of the Ucayali and the Uribamba).



**Capito niger intermedius** Berlepsch and Hartert

*Capito auratus intermedius* Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 98. (Nericagua, Río Orinoco, Venezuela.)

Known only from the Maipures region of the upper Orinoco.

**Capito niger aurantiicinctus** Dalmás

*Capito aurantiicinctus* Dalmás, Bull. Zool. Soc. France, 25, 1900, p. 177. (Río Caura, Venezuela.)

Venezuela from the right bank of the Orinoco near the mouth of the Caura, south to Mt. Duida.

**Capito niger auratus** (Dumont)

*Bucco auratus* Dumont, Dict. Sci. Nat., éd. Levrault, 4, 1816, p. 54. (Perú; Sarayaçu [= Sarayacu], Río Ucayali, suggested as the restricted type locality by Chapman, 1928, p. 5.)

Tropical zone of the lower Río Ucayali, Perú.

**Capito niger orosae** Chapman

*Capito auratus orosae* Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 8. (Right bank of the Marañon near the mouth of the Orosa, Perú, opposite a point midway between Pebas and the mouth of the Napo.)

Known only from the type locality and the Rio Eirú in western Brazil.

**Capito niger amazonicus** Deville and Des Murs

*Capito amazonicus* Deville and Des Murs, Rev. et Mag. Zool. (2), 1, 1849, p. 161, 171. (Ega and Santa Maria, Brazil; Ega [now Tefé] fixed as type locality by Chapman, 1928, p. 7.)

*Capito aurantiiventris* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 87. (From "an unknown locality in the upper Amazon valley".)

Amazonian Brazil from São Paulo de Olivença on the right bank of the Solimões east to Tefé and south to the left bank of the Rio Purús (Hyutanahan).

**Capito niger transilens** Friedmann

*Capito auratus transilens* Friedmann, Proc. Biol. Soc. Washington, 58, 1945, p. 113. (Santa Isabel, Rio Negro, Amazonas, Brazil.)

Upper Rio Negro in Brazil.

**Capito niger nitidior** Chapman

*Capito auratus nitidior* Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 6. (Tonantins, left bank of the Rio Solimões, below the mouth of the Putumayo, Brazil.)



Northwestern Brazil on the left bank of the Solimões below its junction with the Putumayo; Rio Uaupés.

**Capito niger hypochondriacus** Chapman

*Capito auratus hypochondriacus* Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 15. (Manacapuru, left bank of the Solimões near its junction with the Rio Negro, Brazil.)

Known only from the type locality.

**Capito niger novaolindae** Chapman

*Capito auratus novaolindae* Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 9. (Nova Olinda, left bank of the Rio Purús, Brazil.)

Known only from the type locality.

**Capito niger arimae** Chapman

*Capito auratus arimae* Chapman, Am. Mus. Novit., no. 335, 1928, p. 3, 10. (Arimã, right bank of the lower Rio Purús, Brazil.)

Right bank of the lower Rio Purús from the Amazon to Arimã.

**Capito niger insperatus** Cherrie

*Capito auratus insperatus* Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 391. (Todos Santos, Río Chaparé, Bolivia.)

Humid tropical zone of Bolivia, west to southeastern Perú and north to Calama on the right bank of the Rio Madeira, Brazil.

**Capito niger bolivianus** Ridgway

*Capito auratus bolivianus* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 87. (Río Beni,<sup>1</sup> Bolivia.)

Range unknown.

**Capito niger brunneipectus** Chapman

*Capito brunneipectus* Chapman, Am. Mus. Novit., no. 2, 1921, p. 1. (Villa Braga, Rio Tapajóz, Brazil.)

Rio Tapajóz, Brazil.

GENUS **EUBUCCO** BONAPARTE

*Eubucco* Bonaparte, Conspectus Av., 1, 1850, p. 142. Type by subsequent designation, *Capito richardsoni* G. R. Gray (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 91.)

cf. Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), 7, 1937, p. 225–231.

Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 324–325.

<sup>1</sup> Locality probably erroneous, cf. Chapman, Bull. U. S. Nat. Mus., no. 117, 1921, p. 74.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 314-319.

Ripley, Auk, 62, 1945, p. 547-549 (part).

**Eubucco richardsoni richardsoni** (G. R. Gray)

*Capito richardsoni* G. R. Gray, Gen. Bds., 2, 1846, p. [430], pl. CVI. (No locality = Ecuador.)

*Capito granadensis* Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 108 (in key), p. 115, pl. 5, f. 5. (Bogotá, Colombia.)

Tropical zone of eastern Colombia, eastern Ecuador, and eastern Perú north of the Marañon.

**Eubucco richardsoni nigriceps** Chapman

*Eubucco richardsoni nigriceps* Chapman, Am. Mus. Novit., no. 332, 1928, p. 7. (Junction of the Apiyacu and the Amazon, near Pebas, Perú.)

Known only from the region near Pebas, Perú.

**Eubucco richardsoni aurantiicollis** Sclater

*Eubucco aurantiicollis* Sclater, Proc. Zool. Soc. London, pt. 25, 1857 (1858), p. 267. (Río Javari and Río Ucayali, Perú.)

Eastern Perú south of the Marañon, and western Brazil south of the Amazon, east to the Rio Madeira.

**Eubucco richardsoni coccineus** Carriker

*Eubucco richardsoni coccineus* Carriker, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 367. (Puerto Yessup, Dept. Junín, Perú.)

Known only from the type locality in central Perú.

**Eubucco bourcierii salvini** (Shelley)

*Capito salvini* Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 108 (in key), p. 119, pl. 5, f. 4. (Costa Rica to Chiriquí.)

Subtropical zone of Costa Rica and western Panamá.

**Eubucco bourcierii anomalus** Griscom

*Eubucco bourcierii anomalus* Griscom, Bull. Mus. Comp. Zoöl., 69, 1929, p. 163. (Cana, Darien.)

Subtropical and upper tropical zone of eastern Panamá.

**Eubucco bourcierii occidentalis** Chapman

*Eubucco bourcierii occidentalis* Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 608. (San Antonio, 6600 feet, Western Andes above Cali, Colombia.)

Subtropical zone of the Western Andes of Colombia.

**Eubucco bourcierii bourcierii** (Lafresnaye)

*Micropogon Bourcierii* Lafresnaye, Rev. Zool., 1845, p. 179.  
(Bogotá, Colombia.) = ♂

*Micropogon Hartlaubii* Lafresnaye, Rev. Zool., 1845, p. 180.  
(Bogotá, Colombia.) = ♀

Subtropical zone of the eastern slope of the Central Andes and western slope of the Eastern Andes of Colombia.

**Eubucco bourcierii aequatorialis** (Salvadori and Festa)

*Capito aequatorialis* Salvadori and Festa, Boll. Mus. Zool. Anat. Comp. Torino, 15, 19 Feb., 1900, no. 368, p. 22. (Intac, Ecuador.)

*Capito shelleyi* Dalmas, Bull. Soc. Zool. France, 25, Nov., 1900, p. 179. (Napo, Ecuador, error, probably = western Ecuador.)

Subtropical zone of the western slope of the Andes in Ecuador.

**Eubucco bourcierii orientalis** Chapman

*Eubucco bourcierii orientalis* Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 609. (Zamora, 2000 feet, Prov. Loja, Ecuador.)

Subtropical zone of the eastern slope of the Andes in Ecuador.

**Eubucco bourcierii tucinkae** (Seilern)

*Capito tucinkae* Seilern, Verh. Orn. Ges. Bayern, 11, 1913, p. 276. (Yahuarmayo, Carabaya, Perú.)

Eastern slopes of the Andes in southeastern Perú.

**Eubucco versicolor steerii** (Sclater)

*Capito steerii* Sclater, Proc. Zool. Soc. London, 1878, p. 140, pl. 12. (Moyobamba, Perú.)

Northern Perú (Moyobamba, Nuevo Loreto, Vista Alegre, Huachipa).

**Eubucco versicolor glaucogularis** (Tschudi)

*Capito glaucogularis* Tschudi, Arch. Naturg., 10, 1844, Bd. 1, p. 301. (Perú.)

Central Perú (Chanchamayo) intergrading with *E. v. versicolor* in the Urubamba valley.

**Eubucco versicolor versicolor** (P.L.S. Müller)

*Bucco versicolor* P. L. S. Müller, Natursyst., Suppl., 1776, p. 88. (Maynas, Perú.)

Southern Perú and northwestern Bolivia.

## GENUS SEMNORNIS RICHMOND

*Tetragonops* Anonymous = Jardine, Edinburgh New Philos. Journ. (n.s.), 2, Oct., 1855, p. 404. Type, by monotypy, *Tetragonops ramphastinus* Jardine. Not *Tetragonops* Gerstäcker, Feb. or Mar. 1855, Coleoptera.

*Pan* Richmond, Auk, 16, 1899, p. 77. New name to replace *Tetragonops* Jardine, preoccupied. Not *Pan* Oken, 1816, Mammalia.

*Semnornis* Richmond, Auk, 17, 1900, p. 179. New name to replace *Pan* Richmond, preoccupied.

*Dicrorhynchus* Carriker, Ann. Carnegie Mus., 6, 1910, p. 571. Type, by original designation and monotypy, *Tetragonops frantzii* Sclater.

cf. Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), 7, 1937, p. 224-225. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 313 (in key), p. 324-327.

**Semnornis frantzii** (Sclater)

*Tetragonops frantzii* Sclater, Ibis, 1864, p. 371, pl. 10. (Near San José, Costa Rica.)

Subtropical zone of Costa Rica and western Panamá.

**Semnornis ramphastinus caucæ** Gyldenstolpe

*Semnornis ramphastinus caucæ* Gyldenstolpe, Ark. Zool., 33A, 1941, no. 6, p. 15. (La Costa, Cauca district, western slope of the Western Andes, Colombia.)

Subtropical zone of the Western Andes of Colombia.

**Semnornis ramphastinus ramphastinus** (Jardine)

*Tetragonops ramphastinus* Anonymous = Jardine, Edinburgh New Philos. Journ. (n.s.), 2, 1855, p. 404. (Eastern Cordillera between Quito and Mt. Cayambe, Ecuador.)

Subtropical zone of the Andes of Ecuador.

## GENUS PSILOPOGON S. MÜLLER

*Psilopogon* S. Müller, Tijdschr. Nat. Gesch. en Phys., 2, 1835, p. 339. Type, by monotypy, *Psilopogon pyrolophus* S. Müller.

cf. Chasen, Bull. Raffles Mus., no. 11, 1935, p. 140.

Robinson, Bds. Malay Pen., 2, 1928, p. 94-96, pl. 4.

**Psilopogon pyrolophus** S. Müller

*Psilopogon pyrolophus* S. Müller, Tijdschr. Nat. Gesch. en Phys., 2, 1835, p. 339, pl. VIII, f. 3. (Sumatra.)

*Bucco pyrolophus* Temminck, Pl. col., livr. 101, 1836, pl. 597. (Sumatra.)

Hills of the main range of the Malay Peninsula from north of Perak to south of Selangor, and on the Larut Hills; Sumatra above 3000 feet.

# GENUS *MEGALAIMA* G. R. GRAY

*Megalaima* G. R. Gray, Appendix to List Gen. Bds., 1842, p. 12.

Type, by original designation and monotypy, *Bucco grandis* Gmelin = *Bucco virens* Boddaert.

*Megalæma* a *Chotorea* Bonaparte, Ateneo Italiano, 2, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation *Bucco javensis* Horsfield (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

*Megalæma* c *Cyanops* Bonaparte, Ateneo Italiano, 2, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation, *Bucco asiaticus* Latham (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

*Megalæma* d *Xantholæma* Bonaparte, Ateneo Italiano, 2, 1854, p. 127. (Consp. Vol. Zygodact., p. 12.) Type, by subsequent designation, *Bucco philippensis* Gmelin. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 90.)

*Mezobucco* Shelley, Ibis, 1889, p. 477. Type, by original designation, *M. duvauceli* = *Bucco duvaucelii* Lesson.

*Thereiceryx* Blanford, Ibis, 1893, p. 237. Type, by original designation, *Bucco zeylanicus* Gmelin.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 104-130.

Berlioz, Ois. et Rev. Franç. d'Orn. (n.s.), 7, 1936, p. 34-55.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 134-140.

Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 243-257.

Hachisuka, Bds. Phil. Ids., 2, 1934, p. 228-230.

Riley, Bull. U. S. Nat. Mus., no. 172, 1938, p. 199-210.

Ripley, Auk, 62, 1945, p. 550-555.

Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 515-518.

# *Megalaima virens marshallorum* (Swinhoe)

*Megalæma Marshallorum* Swinhoe, Ann. and Mag. Nat. Hist. (4), 6, 1870, p. 348. (Himalayas.)

Northwestern Himalayas, between 3000 and 8000 feet, from Kashmir to Simla.



**Megalaima virens magnifica** Stuart Baker

*Megalaima virens magnifica* Stuart Baker, Bull. Brit. Orn. Cl., 47, 1926, p. 43. (Machi, Manipur.)

Assam and the hills of northern Burma.

**Megalaima virens clamator** Mayr

*Megalaima virens clamator* Mayr, Ibis, 1941, p. 489. (Shweli-Salween divide, 8000 feet.)

Upper Burma in the Hpimaw Hills and the Shweli-Salween divide.

**Megalaima virens virens** (Boddaert)

*Bucco virens* Boddaert, Table Pl. enlum., 1783, p. 53. (China, *ex* Daubenton, pl. 871.)

Eastern and southern China from southern Szechuan, Yunnan, Kiangsi and Chekiang, south to Tenasserim, northern Siam, Laos and northern Annam.

**Megalaima lagrandieri rothschildi** (Delacour)

*Megalama lagrandieri rothschildi* Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 153. (Backan, Tonkin.)

Tonkin, northern Annam and northern Laos.

**Megalaima lagrandieri lagrandieri** J. Verreaux

*Megalaima Lagrandieri* J. Verreaux, Nouv. Arch. Mus. Paris, 4, 1868, Bull., p. 87, pl. 4. (Baria, Cochinchina.)

Southern Laos, central and southern Annam and Cochinchina.

**Megalaima zeylanica kangrae** (Whistler)

*Thereiceryx zeylanicus kangrae* Whistler, Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 516. (Ranital, 2000 feet, Kangra.)

Western Himalayas from Kangra to Gahrwal.

**Megalaima zeylanica inornata** Walden

*Megalaima inornata* Walden, Ann. and Mag. Nat. Hist. (4), 5, 1870, p. 219. (Malabar, Coorg, and Candeish.)

Western India from Mt. Abu and the Godavari River, south at least to Cannanore.

**Megalaima zeylanica caniceps** (Franklin)

*Bucco caniceps* Franklin, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (1831), p. 121. ("On the Ganges between Calcutta and Benares, and in the Vindhyan Hills between the latter place and Gurrah Mundela on the Nerbudda.")

Central and eastern India.



**Megalaima zeylanica zeylanica** (Gmelin)

*Bucco Zeylanicus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 408.  
(Ceylon.)

Travancore and Ceylon.

**Megalaima zeylanica hodgsoni** (Bonaparte)

*Megalaema hodgsoni* [sic] Bonaparte, Consp. Av., 1, 1850,  
p. 144. (Nepal.)

*Thereiceryx lineatus intermedius* Stuart Baker, Bull. Brit. Orn.  
Cl., 39, 1918, p. 18. (Pahpoon, Burma.)

The Himalayas from Mussoorie and Simla to eastern Assam, the  
Shan States and Annam, south to the Malay Peninsula, Siam, Cam-  
bodia and Cochinchina.

**Megalaima zeylanica lineata** (Vieillot)

*Capito lineatus* Vieillot, Nouv. Dict. Hist. Nat., 4, 1816, p. 500.  
("Australasie", error = Java.)

Java and Bali.

**Megalaima viridis** (Boddaert)

*Bucco viridis* Boddaert, Table Pl. enlum., 1783, p. 53. (Mahé,  
India, *ex* Daubenton, pl. 870.)

Hill ranges of the southern part of the Indian Peninsula.

**Megalaima faiostricta praetermissa** (Kloss)

*Thereiceryx flavostrictus* [sic] *praetermissus* Kloss, Ibis, 1918,  
p. 101. (Southern China; type from Nanchan Island, Kwang-  
tung.)

*Thereiceryx faiostrictus pallidus* Delacour, Bull. Brit. Orn. Cl.,  
47, 1927, p. 154. (Backan, Tonkin.)

Southern China and Tonkin.

**Megalaima faiostricta faiostricta** (Temminck)

*Bucco faiostrictus* Temminck, Pl. col., livr. 88, 1831, pl. 527.  
(Cochinchina.)

*Cyanops faiostricta saigonensis* Neumann, Bull. Brit. Orn. Cl.,  
23, 1908, p. 31. (Saigon, Cochinchina.)

Siam and the greater part of French Indochina (except Tonkin).

**Megalaima corvina** (Temminck)

*Bucco corvinus* Temminck, Pl. col., livr. 88, 1831 pl. 522. (Java,  
Sumatra and Borneo, = Java.)

Java.

**?Megalaima chrysopogon laeta** (Robinson and Kloss)

*Chotorhea chrysopogon* subsp. *laetus* Robinson and Kloss, Journ. Fed. Malay States Mus., 8, 1918, p. 141. (Bukit Tangga, Negri Sembilan, Malay Peninsula.)

Peninsular Siam from about lat. 11° 40' N. southward over the Malay Peninsula. Doubtfully distinct from *M. c. chrysopogon*.

**Megalaima chrysopogon chrysopogon** (Temminck)

*Bucco chrysopogon* Temminck, Pl. col., livr. 48, 1824, pl. 285. (Sumatra.)

Sumatra.

**Megalaima chrysopogon chrysopsis** Goffin

*Megalaima chrysopsis* Goffin, Mus Pays-Bas, 1, 1863, Buccones, p. 15. (Borneo.)

Borneo.

**Megalaima rafflesii malayensis** (Chasen)

*Chotorhea rafflesii malayensis* Chasen, Orn. Monatsb., 43, 1935, p. 147. (Pulau Ubin, near Singapore.)

Southern Tenasserim southward over the Malay Peninsula.

**Megalaima rafflesii rafflesii**<sup>1</sup> (Lesson)

*Bucco Rafflesii* Lesson, Rev. Zool., 1839., p. 137. (Sumatra.)  
Sumatra, Banka.

**Megalaima rafflesii billitonis** (Chasen)

*Chotorhea rafflesii billitonis* Chasen, Orn. Monatsb., 43, 1935, p. 147. (Billiton Island.)

Islands of Billiton and Mendanau.

**Megalaima rafflesii borneensis** (W. Blasius)

*Chotorea versicolor* (Raffl.) v. n. *borneensis* W. Blasius, Verh. zool.-bot. Ges. Wien, 33, 1883, p. 25. (Southeastern Borneo.)

Borneo.

**Megalaima mystacophanos mystacophanos** (Temminck)

*Bucco mystacophanos* Temminck, Pl. col., livr. 53, 1824, pl. 315. (Sumatra.)

*Cyanops mystacophanes aurantiifrons* Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, 3, 1919, p. 100. (Nong Kok, Ghirbi, Peninsular Siam.)

Southern Tenasserim southward over the Malay Peninsula; Sumatra.

<sup>1</sup> Replaces *Bucco versicolor* Raffles, 1821, not *Bucco versicolor* P.L.S. Müller, 1776.

**Megalaima mystacophanos humii** (Marshall and Marshall)

*Megalaima humii* C. H. T. and G. F. L. Marshall, Ibis, 1870, p. 536. (Borneo.)

Borneo.

**Megalaima mystacophanos ampala** (Oberholser)

*Chotorea mystacophanes ampala* Oberholser, Smiths. Misc. Coll., 60, 1912, no. 7, p. 6. (Tana Bala Island, Batu Islands.)

Batu Islands.

**Megalaima javensis** (Horsfield)

*Bucco Javensis* Horsfield, Trans. Linn. Soc. London, 13, pt. 1, 1821, p. 181. (Java.)

Java.

**Megalaima flavifrons** (Cuvier)

*Bucco flavifrons* Cuvier, Règne Anim., 1817 (1816), p. 428, note 2. (Ceylon. Based on LeVaillant, Ois. de Paradis, pl. 55.)

Ceylon.

**Megalaima franklinii franklinii** (Blyth)

*Bucco Franklinii* Blyth, Journ. As. Soc. Bengal, 11, pt. 1, 1842, p. 167. (Darjeeling.)

*Cyanops franklini tonkinensis* Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 153. (Tan Dao, Tonkin.)

At elevations between 2000 and 6000 feet in the mountains of Nepal, Sikkim, northern Burma, southern Yunnan, Tonkin, northern Laos and northern Annam.

**Megalaima franklinii ramsayi** (Walden)

*Megalaima Ramsayi* Walden, Ann. and Mag. Nat. Hist. (4), 15, 1875, p. 400. (2000–4000 feet, Karenni Hills.)

Mountains of the Southern Shan States, Burma from Karenni to Muleyit, northern and western Siam.

**Megalaima franklinii auricularis** (Robinson and Kloss)

*Cyanops franklini auricularis* Robinson and Kloss, Ibis, 1919, p. 428. (Langbian Peaks, 5500–6500 feet, Annam.)

Mountains of southern Laos and southern Annam.

**Megalaima franklinii trangensis** (Riley)

*Cyanops franklini trangensis* Riley, Proc. Biol. Soc. Washington, 47, 1934, p. 116. (Kao Nom Plu, 3000 feet, Trang, Siam.)

Mountains of Peninsular Siam.

**Megalaima franklinii minor** (Kloss and Chasen)

*Cyanops franklinii minor* Kloss and Chasen, Bull. Brit. Orn. Cl., 46, 1926, p. 57. (Gunong Ijan, 4700 feet, Perak, Malay States.)

Mountains of the Malay Peninsula.

**Megalaima oorti oorti** (S. Müller)

*Bucco Oorti* S. Müller, Tijdschr. Nat. Gesch. en Phys., 2, 1835, p. 341, pl. VIII, f. 4. (Sumatra.)

Mountains of the Malay Peninsula and of Sumatra.

**Megalaima oorti annamensis** (Robinson and Kloss)

*Cyanops oorti annamensis* Robinson and Kloss, Ibis, 1919, p. 428. (Dalat, 5000 feet, Annam.)

Langbian Plateau in southern Annam and Bolovens Plateau, southern Laos.

**Megalaima oorti nuchalis** (Gould)

*Megalæma nuchalis* Gould, Proc. Zool. Soc. London, 1862 (1863), p. 283. (Formosa.)

Formosa.

**Megalaima oorti faber** (Swinhoe)

*Megalæma faber* Swinhoe, Ibis, 1870, p. 96, pl. 4, f. 1. (Hainan.)

Hainan.

**Megalaima oorti sini** (Stresemann)

*Cyanops faber sini* Stresemann, Journ. f. Orn., 77, 1929, p. 336. (Mountains of northern Kwangsi, 2000–3500 feet.)

Mountains of southeastern China in Province of Kwangsi.

**Megalaima asiatica asiatica** (Latham)

*Trogon asiaticus* Latham, Index Orn., 1, 1790, p. 201. (India = Calcutta, *fide* Stuart Baker.)

Northern India from Mussoorie and Kashmir eastward to Assam, south to Burma and the Northern Shan States.

**Megalaima asiatica rubescens** (Stuart Baker)

*Cyanops rubescens* Stuart Baker, Nov. Zool., 3, 1896, p. 257. (Highest ranges in the east of the Cachar Hills.)

Confined to the higher hills of Assam south of the Brahmaputra; Manipur, Lushai, Khasia and Cachar Hills in Burma.<sup>1</sup>

<sup>1</sup> Apparently an erythristic population occurring within the range of *C. a. asiatica*, but at higher elevations.

**Megalaima asiatica davisoni** Hume

*Megalaima Davisoni* Anonymous = Hume, Stray Feath., 5, 1877, p. 108. (Meetan, Tenasserim.)

*Cyanops davisoni laurentii* Wells, Bull. Brit. Orn. Cl., 43, 1923, p. 174. (Yuen Chang [150 miles south of Yunnanfu], Yunnan.)

Southern Shan States, Karenni, Tenasserim, Siam, southeastern Yunnan, Kwangsi, Tonkin, northern Laos and northern Annam.

**Megalaima asiatica chersonesus** (Kloss and Chasen)

*Cyanops asiatica chersonesus* Kloss and Chasen, Bull. Brit. Orn. Cl., 48, 1927, p. 46. (Khao Luang, Nakawn Sritamarat, 4500 feet, Peninsular Siam.)

Mountains of Peninsular Siam.

**Megalaima asiatica monticola** (Sharpe)

*Cyanops monticola* Sharpe, Ann. and Mag. Nat. Hist. (6), 3, 1889, p. 424. (Mt. Kina Balu, Borneo.)

Mountains of northern Borneo.

**Megalaima incognita incognita** Hume

*Megalaima incognita* Anonymous = Hume, Stray Feath., 2, 1874, p. 442. (25 miles north of Yea and Karope, Tenasserim.)

Tenasserim.

**Megalaima incognita euroa** (Deignan)

*Cyanops incognita euroa* Deignan, Journ. Washington Acad. Sci., 29, 1939, p. 177. (Khao Sa Bap, Chantabun, Siam.)

Southeastern Siam, Laos, Tonkin, Annam and Cambodia.

**Megalaima henricii henricii** (Temminck)

*Bucco henricii* Temminck, Pl. col., livr. 88, 1831, pl. 524. (Sumatra.)

Peninsular Siam and the Malay States; Sumatra.

**Megalaima henricii brachyrhyncha** (Neumann)

*Cyanops henricii brachyrhyncha* Neumann, Bull. Brit. Orn. Cl., 23, 1908, p. 30. (Batulang, Baram River, Borneo.)

Borneo, except mountains of northwestern part.

**Megalaima armillaris armillaris** (Temminck)

*Bucco armillaris* Temminck, Pl. col., livr. 15, 1821, pl. 89, f. 1. (Java.)

Western and central Java.



**Megalaima armillaris baliensis** (Rensch)

*Cyanops armillaris baliensis* Rensch, Orn. Monatsb., 36, 1928, p. 80. (Gitgit, Bali.)

Eastern Java and Bali.

**Megalaima pulcherrima** (Sharpe)

*Megalæma pulcherrima* Sharpe, Ibis, 1888, p. 393, pl. 11, f. 2. (Mt. Kina Balu, Borneo.)

Mountains of northwestern Borneo.

**Megalaima robustirostris** (Stuart Baker)

*Cyanops robustirostris* Stuart Baker, Journ. Bombay Nat. Hist. Soc., 10, 1896, p. 356, pl. F.<sup>1</sup> (North Cachar Hills.)

North Cachar.

**Megalaima australis cyanotis** (Blyth)

*Bucco cyanotis* Blyth, Journ. As. Soc. Bengal, 16, pt. 1, 1847, p. 465. (Arakan.)

*Mesobucco duvaugli* [sic] *orientalis* Robinson, Ibis, 1915, p. 738. (Ok Yam, Cambodia-Siam border.)

*Cyanops australis invisæ* Deignan, Auk, 58, 1941, p. 398. (Pang Ma :kham Phong, foot of Doi Pha, Sa :kaeng, Siam.)

Sikkim, Assam, Burma south to northern Tenasserim, Laos and Annam, Siam, Cambodia and Cochinchina.

**Megalaima australis stuarti** (Robinson and Kloss)

*Mesobucco duvauceli stuarti* Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, 3, 1919, p. 100. (Klong Tung Sai, Junk Seylon, Siam.)

Peninsular Burma and Siam.

**Megalaima australis duvaucelii** (Lesson)

*Bucco Duvaucelii* Lesson, Traité d' Orn., livr. 3, 1830, p. 164. (Sumatra.)

*Megalaema duvauceli borneonensis* Parrot, Abh. K. Bayerischen Akad. Wiss., Math.-Phys. Kl., 22, 1907, p. 171. (Borneo.)

*Cyanops duvauceli robinsoni* Stuart Baker, Bull. Brit. Orn. Cl., 39, 1918, p. 20. (Klang, southern Malay Peninsula.)

Malay Peninsula, Sumatra, Banka, Borneo.

**Megalaima australis gigantorhinus** (Oberholser)

*Mezobucco duvaucelii gigantorhinus* Oberholser, Smiths. Misc. Coll., 60, 1912, no. 7, p. 6. (Lafau, Nias Island.)

Nias Island.

<sup>1</sup> The plate is lettered *Mezobucco robustirostris*.

**Megalaima australis tanamassae** (de Schauensee)

*Mezobucco duvauceli tanamassae* de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, **81**, 1929, p. 521. (Pulo Tana Massa, Batu Islands.)

Batu Islands.

**Megalaima australis australis** (Horsfield)

*Bucco australis* Horsfield, Trans. Linn. Soc. London, **13**, pt. 1, 1821, p. 181. (Java.)

Java.

**Megalaima australis hebereri** (Rensch)

*Xantholaema australis hebereri* Rensch, Mitt. Zool. Mus. Berlin, **16**, 1930, p. 532. (Gitgit, Bali.)

Bali.

**Megalaima eximia eximia** (Sharpe)

*Mesobucco eximius* Sharpe, Ibis, 1892, p. 324, 441, pl. 11. (Mt. Dulit, Borneo.)

Mountains of Sarawak, Borneo.

**Megalaima eximia cyanea** (Harrisson and Hartley)

*Mesobucco duvaucelii cyaneus* Harrisson and Hartley, Bull. Brit. Orn. Cl., **54**, 1934, p. 151. (Mt. Kina Balu, Borneo.)

Confined to Mt. Kina Balu, Borneo.

**Megalaima rubricapilla malabarica** (Blyth)

*Bucco malabaricus* Blyth, Journ. As. Soc. Bengal, **16**, pt. 1, 1847, p. 465. (Malabar.)

*Xantholaema haemacephala confusa* Koelz, Proc. Biol. Soc. Washington, **52**, 1939, p. 78. (Londa, Bombay Presidency.)

Western coast of India from Goa to southern Travancore.

**Megalaima rubricapilla rubricapilla** (Gmelin)

*Bucco rubricapillus* Gmelin, Syst. Nat., **1**, pt. 1, 1788, p. 408. (Ceylon.)

Ceylon.

**Megalaima haemacephala indica** (Latham)

*Bucco indicus* Latham, Index Orn., **1**, 1790, p. 205. (Calcutta.)

*Bucco luteus* Lesson, Traité d' Orn., livr. 3, 1830, p. 163. (Pondicherry.)

Northwestern India, Nepal, Sikkim, Assam, southern Yunnan, and Laos, south over the whole of the Indian Peninsula (except area occupied by *malabarica*.), to the northern Malay States, Siam, Cambodia and CochinChina; Ceylon.

**Megalaima haemacephala delica** (Parrot)

*Megalaema haemacephala delica* Parrot, Abh. K. Bayerischen Akad. Wiss., Math.-Phys. Kl., 22, 1907, p. 169. (Deli, Sumatra.)

Sumatra.

**Megalaima haemacephala rosea** (Dumont)

*Bucco roseus* Dumont, Dict. Sci. Nat., éd. Levrault, 4, 1816, p. 52. (No locality = Java, *ex* Levaillant, Ois. de Paradis, pl. 33.)

Java and Bali.

**Megalaima haemacephala haemacephala** (P. L. S. Müller)

*Bucco haemacephalus* P. L. S. Müller, Natursyst., Suppl., 1776, p. 88. (Philippine Islands.)

Philippine Islands: Luzon, Mindoro, Samar, Leyte, Mindanao.

**Megalaima haemacephala intermedia** (Shelley)

*Xantholama intermedia* Shelley, Cat. Bds. Brit. Mus., 19, 1891, p. 88 (in key), p. 97. (Negros and Cebu, Philippine Islands.)

Philippine Islands: Tablas, Romblon, Masbate, Guimaras, Negros, Cebu.

GENUS **CALORHAMPHUS** LESSON

*Calorhamphus* Lesson, Rev. Zool., 1839, p. 138. Type, by monotypy, *Calorhamphus sanguinolentus* Lesson = *Bucco hayii* J. E. Gray.

*cf.* Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 102-104.

Berlioz, Ois. et Rev. Franç. d' Orn. (n.s.), 6, 1936, p. 33-34.

**Calorhamphus fuliginosus hayii** (J. E. Gray)

*Bucco Hayii* J. E. Gray, Zool. Misc., 1831, p. 33. (Molucca = Malacca.)

Southern Tenasserim and Peninsular Siam, southward over the Malay Peninsula; Sumatra.

**Calorhamphus fuliginosus fuliginosus** (Temminck)

*Mycropogon fuliginosus* Temminck, Pl. col., livr. 83, 1830. (West coast of Borneo, *i.e.* Pontianak.)

Borneo (except northern).

**Calorhamphus fuliginosus tertius** Chasen and Kloss

*Calorhamphus fuliginosus tertius* Chasen and Kloss, Journ. f. Orn., Ergänzungb. II, 1929, p. 110. (Bettotan, near Sandakan, British North Borneo.)

Northern Borneo.

GENUS **GYMNOBUCCO** BONAPARTE

*Gymnobucco* Bonaparte, Consp. Av., 1, 1850, p. 141. Type, by monotypy, *Bucco calvus* Lafresnaye.

*Heliobucco* Shelley, Ibis, 1889, p. 476. Type, by original designation and monotypy, *H. bonapartii* = *Gymnobucco bonapartei* Hartlaub.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 379-384.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 510-519.

**Gymnobucco calvus calvus** (Lafresnaye)

*Bucco calvus* Lafresnaye, Rev. Zool., 1841, p. 241. (Locality unknown = Ashanti.)

Forests of West Africa from Sierra Leone to Southern Nigeria.

**Gymnobucco calvus major** Neumann

*Gymnobucco calvus major* Neumann, Journ. f. Orn., 68, 1920, p. 80. (Buea, Cameroons.)

Cameroon Mountain to Gaboon.

**Gymnobucco calvus congicus** Chapin

*Gymnobucco calvus congicus* Chapin, Am. Mus. Novit., no. 570, 1932, p. 5. (Thysville, Lower Congo district, Belgian Congo.)

Gallery forests of the lower Congo and northern Angola.

**Gymnobucco calvus vernayi** Boulton

*Gymnobucco calvus vernayi* Boulton, Ann. Carnegie Mus., 21, 1931, p. 44. (Mombolo, 6000 feet, district of Cuanza Sul, Angola.)

Highlands of Benguella.

**Gymnobucco peli** Hartlaub

*Gymnobucco Peli* Hartlaub, Syst. Orn. Westafr., 1857, p. 175. (Dabocrom, Gold Coast.)

Gold Coast Colony, Southern Nigeria, Cameroons and Gaboon.

**Gymnobucco sladeni** Ogilvie-Grant

*Gymnobucco sladeni* Ogilvie-Grant, Bull. Brit. Orn. Cl., 19, 1907, p. 42. (Mawambi, Congo Forest.)

*Gymnobucco adolfi-friederici* Reichenow, Orn. Monatsb., 16, 1908, p. 160. (Forest north of Beni, Upper Congo.)

Upper Congo forests from the Ubangi River eastward to the Semliki valley and south to the Kasai.

**Gymnobucco bonapartei bonapartei** Hartlaub

*Gymnobucco Bonapartei* Verr. Hartlaub, Journ. f. Orn., 2, 1854, p. 410. (Gaboon.)

Western Cameroons and Gaboon eastward to the Ituri Forest and south to Kwamouth and the Kasai district.

**Gymnobucco bonapartei intermedius** van Someren

*Gymnobucco bonapartei intermedius* van Someren, Bull. Brit. Orn. Cl., 41, 1921, p. 105. (Mabira Forest, Uganda.)

Eastern borders of the upper Congo Forest from the Bomu River to the forest patches of the Bahr el Ghazal, Uganda, base of Mt. Ruwenzori, the Rutshuru Valley and the highlands east of Lake Tanganyika and thence to the Lulua district.

**Gymnobucco bonapartei cinereiceps** Sharpe

*Gymnobucco cinereiceps* Sharpe, Ibis, 1891, p. 122. (Mt. Elgon, East Africa.)

Western Kenya Colony from Mt. Elgon to Nandi.

GENUS **SMILORHIS** SUNDEVALL

*Smilorhis* Sundevall, Meth. Nat. Av. Disp. Tent., 1872, p. 75. Type, by monotypy, *Megalaema leucotis* Sundevall.

cf. Reichenow, Vög. Afr., 2, 1903, p. 142, spp. nos. 702, 703, 704. Sclater, Syst. Av. Ethiop., pt. 1, 1924, p. 278-279.

**Smilorhis leucotis kenyae** Bowen

*Smilorhis leucotis kenyae* Bowen, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 3. (Meru, Kenya Colony.)

Highlands of southern and central Kenya Colony (Meru, Nairobi).

**Smilorhis leucotis kilimensis** Shelley

*Smilorhis kilimensis* Shelley, Ibis, 1889, p. 477 (Kilimanjaro district; type from Taveta, Kenya Colony.)

Southern Kenya Colony (Taveta) and the Kilimanjaro district in Tanganyika Territory, south to the Usambara and Magrotto Mts.

**Smilorhis leucotis leucogrammicus** (Reichenow)

*Buccanodon leucogrammicum* Reichenow, Orn. Monatsb., 23, 1915, p. 90. (Sanyi, Mahenge, Tanganyika Territory.)

Tanganyika Territory in the Uluguru Mts. and the Rufiji Valley.

**Smilorhis leucotis leucotis** (Sundevall)

*Megalæma leucotis* Sundevall, Œfv. Vet.-Akad. Förhandl., 7, 1850, p. 109. (Lower Caffraria *i.e.* Natal.)



Shire highlands of Nyasaland south to Zululand and Natal.

**Smilorhis leucotis bocagei** (Sousa)

*Barbatula Bocagei* Sousa, Journ. Sci. Math. Phys. e Nat., Acad. Real Sci. Lisboa, 11, 1886, p. 158. (Caconda, Benguela.)  
Angola.

GENUS **STACTOLAEMA** MARSHALL AND MARSHALL

*Stactolaema* C. H. T. and G. F. L. Marshall, Proc. Zool. Soc. London, 1870, p. 118. Type, by original designation and monotypy, *S. anchietæ* = *Buccanodon anchietæ* Bocage.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 384-385.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 507-509.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot. 2, 1938, p. 710-711 (part, *olivacea* only).

**Stactolaema olivacea olivacea** (Shelley)

*Barbatula olivacea* Shelley, Ibis, 1880, p. 334, pl. 7. (Rabbai, near Mombasa, Kenya Colony.)

Coastal forests of Kenya Colony from the mouth of the Tana River southward, and mountains of Tanganyika Territory (Usambara, Uluguru, Rungwe and Poroto Mts.).

**Stactolaema olivacea woodwardi** Shelley

*Stactolaema woodwardi* Shelley, Bull. Brit. Orn. Cl., 5, 1895, p. iii. (Zululand; type from Echowe.)

Extreme southeastern Tanganyika Territory; Zululand.

**Stactolaema olivacea belcheri** (Sclater)

*Buccanodon belcheri* Sclater, Bull. Brit. Orn. Cl., 47, 1927, p. 85. (Cholo Mt., 4500 feet, Nyasaland.)

Nyasaland and northern Portuguese East Africa.

**Stactolaema anchietæ rex** (Neumann)

*Buccanodon anchietæ rex* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 47. (Duque de Braganza, Angola.)

Bailundu district of Angola to the upper Cuango River.

**Stactolaema anchietæ anchietæ** (Bocage)

*Buccanodon anchietæ* Bocage, Proc. Zool. Soc. London, 1869, p. 436, pl. 29. (Caconda, Benguela.)

Benguela highlands and the southern Kasai.

**Stactolaema anchietae katangae** (Vincent)

*Buccanodon anchietæ katangæ* Vincent, Bull. Brit. Orn. Cl., 54, 30 June, 1934, p. 176. (Kaluli River, 3000 feet, Katanga Province, Belgian Congo.)

Southern Belgian Congo from eastern Lulua district through the upper Katanga, extending into northern Rhodesia.

**Stactolaema whytii stresemanni** (Grote)

*Buccanodon anchietæ stresemanni* Grote, Orn. Monatsb., 42, 5 June, 1934, p. 86. (Kitungulu-Urungu, Tanganyika Territory.)

Region about the southern end of Lake Tanganyika.

**Stactolaema whytii whytii** (Shelley)

*Smilorhis whytii* Shelley, Ibis, 1893, p. 11, pl. 1. (Zomba, Nyasaland.)

Region southeast of Lake Nyasa.

**Stactolaema whytii sowerbyi** Sharpe

*Stactolaema sowerbyi* Sharpe, Bull. Brit. Orn. Cl., 7, 1898, p. xxxvi. (Mashonaland, *i.e.* Fort Chiquaqua, *ex* Ibis, 1898, p. 572.)

Angoniland and Mashonaland north to southern Nyasaland (Mzimbaboma).

**Stactolaema whytii buttoni** (White)

*Buccanodon sowerbyi buttoni* White, Bull. Brit. Orn. Cl., 65, 1945, p. 18. (Ndola, Northern Rhodesia.)

Known only from the vicinity of the type locality.

GENUS **POGONIULUS** LAFRESNAYE<sup>1</sup>

*Pogoniulus* Lafresnaye, Dict. Univ. Hist. Nat., 2, 1844 (1842), p. 463. Type, by original designation, Barbion de Levaillant (*Bucco parvus* Gmel.) [*i.e.* *Bucco parvus* auct., not of Gmelin] = *Bucco pusillus* Dumont.<sup>2</sup>

*Buccanodon* Hartlaub, Syst. Orn. Westafr., 1857, p. 171. Type, by monotypy, *Barbatula duchaillui* Cassin.

*Viridibucco* Oberholser, Proc. U. S. Nat. Mus., 28, 1905, p. 825, 865. Type, by original designation, *Barbatula leucomystax* Sharpe.

<sup>1</sup> Replaces *Barbatula* Lesson, 1837, preoccupied.

<sup>2</sup> *Bucco nanus* Boddart, 1783, and *Bucco parvus* Gmelin, 1788, are based chiefly on the "Barbu du Sénégal" of Daubenton, Pl. enlum. no. 746, f. 2. I am unable to recognize in Daubenton's figure any of the so-called African "tinker birds"; nor are either of the names based on his figure in current use.

*Micropogonius* (subgenus) Roberts, Ann. Transvaal Mus., 8, 1922, p. 221. Type, by original designation and monotypy, *Megalaema bilineata* Sundevall.

*Microbucco* Roberts, Ann. Transvaal Mus., 10, 1924, p. 86. New name for *Micropogonius* Roberts, supposedly pre-occupied.<sup>1</sup>

*Barbatulides* Strand, Arch. Naturg., 92, Abth. A, 1928, Heft 8, p. 57. New name for *Barbatula* Lesson, 1837. Not *Barbatula* Linck 1790, Pisces.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 386-399.

Chapin, Bull. Am. Mus. Hist., 75, 1939, p. 492-507.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 451-457.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 712-722.

Ripley, Auk, 62, 1945, p. 558-560.

***Pogoniulus duchaillui duchaillui* (Cassin)**

*Barbatula Duchaillui* Cassin, Proc. Acad. Nat. Sci. Philadelphia 7, 1855 (1856), p. 324. (Moonda River, Gaboon.)

*Buccanodon ugandae* Reichenow, Sitzungsab. Deutsche Orn. Ges., Jan., 1892. (Mengo, Uganda.)

West African forest belt from Sierra Leone and Gaboon eastward through the Uelle district and the Semliki Valley to Uganda and Kavirondo.

***Pogoniulus duchaillui gabriellae* (Bannerman)**

*Buccanodon duchaillui gabriellae* Bannerman, Bull. Brit. Orn. Cl., 44, 1924, p. 100. (Pangala, 80 miles northwest of Brazzaville, French Congo.)

Known only from the type locality in southern French Congo, but perhaps occurs in the Mayombe Forest of the Belgian Congo.

***Pogoniulus scolopaceus scolopaceus* (Bonaparte)**

*Xylobucco scolopaceus* Temm. Bonaparte, Consp. Av., 1, 1850, p. 141. (Ashanti.)

West Africa from Sierra Leone to Calabar.

***Pogoniulus scolopaceus stellatus* (Jardine and Fraser)**

*Bucco stellatus* Jardine and Fraser, in Jardine's Contr. Orn. for 1851 (1852), p. 155. (Clarence, Fernando Po.)  
Island of Fernando Po.

<sup>1</sup>Although not so stated, apparently *Micropogonias* Bonaparte, 1831, Pisces, was the name Dr. Roberts had in mind.

**Pogoniulus scolopaceus flavisquamatus** (Verreaux and Verreaux)

*Barbatula flavisquamata* J. and E. Verreaux, Journ. f. Orn., 3, 1855, p. 101. (Cape Lopez, Gaboon.)

Southern Cameroons, Gaboon and French Congo, eastward to the Uelle, the Semliki valley, the Manyema and the Kasai.

**Pogoniulus scolopaceus aloysii** (Salvadori)

*Xylobucco Aloysii* Salvadori, Boll. Mus. Zool. Anat. Comp. Torino, 21, 1906, no. 542, p. 2. (near Entebbe, Uganda.)

Uganda and western Kenya Colony.

**Pogoniulus scolopaceus flavior** Ripley

*Pogoniulus scolopaceus angolensis* Bannerman, Bull. Brit. Orn. Cl., 53, 1933, p. 184. (Ndala Tando, Angola.)

*Pogoniulus scolopaceus friedmanni* Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 398, in text. *Nomen nudum*, *lapsus* for *angolensis*.

*Pogoniulus scolopaceus flavior* Ripley, Auk, 62, 1945, p. 560 and note. New name for *P. s. angolensis* Bannerman, not *Viridibucco coryphaea angolensis* Boulton.

Northern Angola.

**Pogoniulus leucomystax leucomystax** (Sharpe)

*Barbatula leucomystax* Sharpe, Ibis, 1892, p. 310. (Sotik, Kenya Colony.)

Inland districts of Kenya Colony from Mt. Elgon to Sotik and southward through the interior of Tanganyika Territory to western Nyasaland.

**Pogoniulus leucomystax chyulu** (van Someren)

*Viridibucco leucomystax chyulu* van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., 14, 1939, p. 43. (Chyulu Hills, Kenya Colony.)

Chyulu Hills, Kenya Colony.

**Pogoniulus simplex** (Fischer and Reichenow)

*Barbatula simplex* Fischer and Reichenow, Journ. f. Orn., 32, 1884, p. 180. (Massailand = Pangani River, Tanganyika Territory, *ex* Vög. Afr., 2, 1903, p. 146.)

Kenya Colony and Tanganyika Territory from south of Mombasa to southern Nyasaland; Island of Zanzibar.

**Pogoniulus coryphaeus coryphaeus** (Reichenow)

*Barbatula coryphaea* Reichenow, Sitzungs. Deutsche Orn. Ges.

19 Feb., 1892; Journ. f. Orn., 40, April, 1892, p. 181, pl. 2, f. 2. (Buea, 950 met., Cameroon Mt.)

Highlands of northern and western Cameroons.

**Pogoniulus coryphaeus hildamariae** (Sclater)

*Viridibucco coryphaea jacksoni* Sclater, Bull. Brit. Orn. Cl., 51, 1930, p. 16. (Kanyango, 4500 feet, Toro, Uganda.) Not *Barbatula jacksoni* Sharpe, 1897.

*Barbatula hildamariae* Mathews, Bull. Brit. Orn. Cl., 55, 1934, p. 24. (New name "for *B. jacksoni* Sclater, 1930, not Sharpe, 1897.")<sup>1</sup>

*Viridibucco coryphaea hildamariae* Sclater, in Jackson, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 714. First validation of *nomen nudum*.

Highlands of the eastern Congo and western Uganda.

**Pogoniulus coryphaeus angolensis** (Boulton)

*Viridibucco coryphaea angolensis* Boulton, Ann. Carnegie Mus., 21, 1931, p. 46. (Mombolo, 6000 feet, district of Cuanza Sul, Angola.)

Benguella Plateau.

**Pogoniulus pusillus uropygialis** (Heuglin)

*Barbatula uropygialis* Heuglin, Journ. f. Orn., 10, 1862, p. 37. (Ain Saba, Eritrea.)

Eritrea, Bogosland, the greater part of Ethiopia and northern Somaliland.

**Pogoniulus pusillus affinis** (Reichenow)

*Barbatula affinis* Reichenow, Orn. Centralbl., 4, 1879, p. 114. (Kipini, Kenya Colony.)

*Barbatula pusillus lollesheid* van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., no. 37, 1931, p. 193. (Seremli, Juba River, Italian Somaliland.)

From the Turkwell River, Lake Rudolf, the North Guaso Nyiro and southern Somaliland, south to northern Tanganyika Territory.

**Pogoniulus pusillus eupterus** Grote

*Pogoniulus pusillus eupterus* Grote, Orn. Monatsb., 36, 1928, p. 78. (Ukerewe Island, Lake Victoria.)

The parts of Uganda, Kenya Colony and Tanganyika Territory lying northeast and south of Lake Victoria.

<sup>1</sup> Clearly a *nomen nudum* under Opinion no. 138 of the International Commission on Zoological Nomenclature.



**Pogoniulus pusillus pusillus** (Dumont)

*Bucco pusillus* Dumont, Dict. Sci. Nat., éd. Levrault, 4, 1816, p. 50. (Sandag [*i.e.* Sunday] River, Swart Kop River and in the Karrou, Cape Province.)

Southeastern Africa from Swaziland to Algoa Bay.

**Pogoniulus chrysoconus chrysoconus** (Temminck)

*Bucco chrysoconus* Temminck, Pl. col., livr. 90, 1832, pl. 536, f. 2. (Galam, Senegal.)

Arid belt from Senegal, Gambia and Portuguese Guinea eastward through the northern territories of Gold Coast and Nigeria to the Benue River.

**Pogoniulus chrysoconus schubotzi** (Reichenow)

*Barbatula chrysocoma schubotzi* Reichenow, Orn. Monatsb., 20, 1912, p. 28. (Fort Archambault, French Sudan.)

*Barbatula chrysocoma pallida* Wettstein, Anz. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., 53, 1916, p. 132. (Kordofan.)

The Sahara from Aïr through Darfur to the Bahr el Ghazal.

**Pogoniulus chrysoconus centralis** (Reichenow)

*Barbatula centralis* Reichenow, Orn. Monatsb., 8, 1900, p. 40. (Njangabo, west of Lake Albert.)

Savannas of the Ubangi and Uelle Rivers eastward through Uganda to Kavirondo.

**Pogoniulus chrysoconus zedlitzi** (Neumann)

*Barbatula chrysocoma zedlitzi* Neumann, Bull. Brit. Orn. Cl., 23, 1908, p. 30. (Sennar.)

Eastern Sudan in the valleys of the White and Blue Niles.

**Pogoniulus chrysoconus schoanus** (Neumann)

*Barbatula chrysocoma schoana* Neumann, Journ. f. Orn., 52, 1904, p. 391. (Dodgit, Metscha Province, Ethiopia.)

Shoa.

**Pogoniulus chrysoconus xanthostictus** (Blundell and Lovat)

*Barbatula xanthosticta* Blundell and Lovat, Bull. Brit. Orn. Cl., 10, 1899, p. xxi. (Chellia, Ethiopia.)

Highlands of central and southern Ethiopia.

**Pogoniulus chrysoconus rhodesiae** C. H. B. Grant

*Pogoniulus chrysoconus rhodesiae* C. H. B. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 100. (Chambezi Valley, northeastern Rhodesia.)

Belgian Congo from the Ruzizi River south to northeastern Rhodesia and northern Nyasaland.

**Pogoniulus chrysoconus extoni** (Layard)

*Barbatula extoni* Layard, Ibis, 1871, p. 226. (Kanye, lat. 24° 50' S., long. 25° 40' E., Bechuanaland.)

Southern Angola and southeastern Nyasaland south to northern Damaraland and western Transvaal.

**Pogoniulus chrysoconus mayri** White

*Pogoniulus chrysoconus mayri* White, Bull. Brit. Orn. Cl., 66, 1946, p. 43. (Dundu, Angola.)

The Kasai district of the Belgian Congo, south along the Kasai to northeastern Angola.

**Pogoniulus bilineatus sharpei** (Ogilvie-Grant)

*Barbatula sharpei* Ogilvie-Grant, Bull. Brit. Orn. Cl., 19, 29 June, 1907, p. 108. (Cape Coast Castle, Gold Coast.)

*Barbatula leucolaima togoensis* Neumann, Journ. f. Orn., 55, July, 1907, p. 347. (Togoland.)

West Africa from Gambia to southern Nigeria.

**Pogoniulus bilineatus leucolaima** (Verreaux and Verreaux)

*Barbatula leucolaima* J. and E. Verreaux, Rev. et Mag. Zool. (2), 3, June, 1851, p. 263. (Gaboon.)

Lower Guinea from Cameroon Mt. and the Genderu Mts. south through Cameroons and Gaboon to central Angola, eastward through the upper Congo and the Kasai to the Uelle district and the Semliki Valley.

**Pogoniulus bilineatus poensis** (Alexander)

*Barbatula poensis* Alexander, Bull. Brit. Orn. Cl., 23, 1908, p. 15. (Moka, Fernando Po.)

Island of Fernando Po.

**Pogoniulus bilineatus mfumbiri** (Ogilvie-Grant)

*Barbatula mfumbiri* Ogilvie-Grant, Bull. Brit. Orn. Cl., 19, 29 June, 1907, p. 107. (Mfumbiro Volcano, 6000 feet, Belgian Congo.)

*Barbatula leucolaima nyansæ* Neumann, Journ. f. Orn., 55, July, 1907, p. 347. (Bukoba, Tanganyika Territory.)

Mountain forests along the eastern Congo border from Mt. Ruwenzori to Uganda and the highlands northwest of Lake Tanganyika.

**Pogoniulus bilineatus urungensis** (Reichenow)

*Barbatula leucolaema urungensis* Reichenow, Orn. Monatsb., 23, 1915, p. 91. (Kitungula, Ufipa district, southern end of Lake Tanganyika.)

Region about the southern end of Lake Tanganyika and westward to Dilolo.

**Pogoniulus bilineatus jacksoni** (Sharpe)

*Barbatula jacksoni* Sharpe, Bull. Brit. Orn. Cl., 7, 1897, p. vii. (Mau, Kenya Colony.)

*Barbatula kandti* Reichenow, Orn. Monatsb., 11, 1903, p. 23. (Lake Kivu, type from Idjwi Island.)

Mt. Elgon and the highlands of Kenya Colony west of the Rift Valley; Idjwi Island in Lake Kivu.

**Pogoniulus bilineatus alius** Friedmann

*Pogoniulus bilineatus alius* Friedmann, Auk, 47, 1930, p. 86 (Nairobi, Kenya Colony.)

Highlands of Kenya Colony east of the Rift Valley.

**Pogoniulus bilineatus fischeri** (Reichenow)

*Barbatula Fischeri* Reichenow, Orn. Centralbl., 5, 1880, p. 181. (East Africa = Zanzibar, *ex Journ. f. Orn.*, 33, 1885, p. 125.)

*Pogoniulus bilineatus rovumensis* Grote, Orn. Monatsb., 43, 1935, p. 53. (Mikindani, Rovuma River, Tanganyika Territory.)

Coastlands of Kenya Colony and Tanganyika Territory from Takaungu to the Rovuma River; islands of Zanzibar and Mafia.

**Pogoniulus bilineatus conciliator** Friedmann

*Pogoniulus bilineatus conciliator* Friedmann, Proc. New England Zool. Cl., 11, 1929, p. 36. (Nyange, Uluguru Mts. Tanganyika Territory.)

Tanganyika Territory in the Uluguru Mts.

**Pogoniulus bilineatus bilineatus** (Sundevall)

*Megalæma bilineata* Sundevall, Œfv. Vet.-Akad. Förhandl., 7, 1850, p. 109. ("Caffraria inferiore"; type from the Umlazi River, Natal.)

Eastern Rhodesia, Nyasaland and Mozambique, south to Transvaal and Natal.

**Pogoniulus subsulphureus chrysopygus** (Shelley)

*Barbatula chrysopyga* Shelley, Ibis, 1889, p. 477. (Gold Coast.)

West Africa from French Guinea and Sierra Leone to the Gold Coast (Volta River).

**Pogoniulus subsulphureus flavimentum** (Verreaux and Verreaux)

*Barbatula flavimentum* J. and E. Verreaux, Rev. et Mag. Zool. (2), 3, 1851, p. 262. (Gaboön.)

*Barbatula subsulphurea ituriensis* Neumann, Journ. f. Orn., 55, 1907, p. 344. (Kitima, Ituri River.)

Southern Nigeria eastward across Cameroons and the Congo forest to the Ituri River and the forests of Uganda, south to Gaboon, the lower Congo and the Kasai.

**Pogoniulus subsulphureus subsulphureus** (Fraser)

*Bucco subsulphureus* Fraser, Proc. Zool. Soc. London, pt. 11, 1843, p. 3. (Clarence, Fernando Po.)

Confined to Fernando Po.

**Pogoniulus atro-flavus** (Sparrman)<sup>1</sup>

*Bucco atro-flavus* Sparrman, Vetensk.-Acad. nya Handl., 19, 1798, p. 305, pl. 9. (Sierra Leone.)

Forests of upper and lower Guinea from Casamance to Portuguese Congo, east to the Uelle district and Mt. Ruwenzori.

#### GENUS **TRICHOLAEMA** VERREAUX AND VERREAUX

*Tricholaema* J. and E. Verreaux, Journ. f. Orn., 3, March, 1855, p. 102. Type, by monotypy, *Tricholaema flavipunctata* J. and E. Verreaux.

*Notopogonius* Roberts, Ann. Transvaal Mus., 8, 1922, p. 221. Type, by original designation, *Bucco leucomelas* Boddaert.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 376-379.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 516-521.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 443-451.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 701-708.

**Tricholaema lacrymosum lacrymosum** Cabanis

*Tricholaema lacrymosa* Cabanis, Journ. f. Orn., 26, 1878, p. 205, 240. (Adi [= Athi] River, Kenya Colony.)

Northern Uganda (Wadelai and Lake Albert) eastward to southern Ethiopia, thence southward through Kenya Colony east of the Rift Valley to central Tanganyika Territory.

**Tricholaema lachrymosum narokense** Jackson

*Tricholaema lachrymosum narokensis* Jackson, Bull. Brit. Orn. Cl., 43, 1923, p. 167. (Doiyo Narok, 4500 feet, Kenya Colony.)

<sup>1</sup> Replaces *Bucco erythronotus* Cuvier, 1816.

Confined to Doinyo Narok, Kenya Colony; doubtfully distinct from *T. l. lachrymosum*.

***Tricholaema lachrymosum radcliffei* Ogilvie-Grant**

*Tricholaema radcliffei* Ogilvie-Grant, Bull. Brit. Orn. Cl., 15, 1904, p. 29. (Mulema, 5000 feet, Uganda.)

Extreme eastern Belgian Congo, southern Uganda and extreme southwestern Kenya Colony, from Lake Edward and Kavirondo southward to the region north of Lake Nyasa.

***Tricholaema lachrymosum ruahae* Neumann**

*Tricholaema lachrymosum ruahae* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 47. (Uhehe, Tanganyika Territory.)

Inland plateau of central Tanganyika Territory from Dodoma to the Ruaha and Rufiji valleys.

***Tricholaema leucomelan namaqua* Sclater**

*Tricholaema leucomelan namaqua* Sclater, Bull. Brit. Orn. Cl., 42, 1922, p. 63. (Klipfontein, 3100 feet, Little Namaqualand.)

Little Namaqualand.

***Tricholaema leucomelan nkatiense* (Roberts)**

*Notopogonius leucomelas nkatiensis* Roberts, Ann. Transvaal Mus., 15, 1932, p. 27. (Nkate, Bechuanaland.)

Northern Bechuanaland.

***Tricholaema leucomelan centrale* (Roberts)**

*Notopogonius leucomelas centralis* Roberts, Ann. Transvaal Mus., 15, 1932, p. 26. (Rustenberg, Transvaal.)

Transvaal (except eastern.)

***Tricholaema leucomelan zuluense* (Roberts)**

*Notopogonius leucomelas zuluensis* Roberts, Ann. Transvaal Mus., 14, 1931, p. 237, p. 240. (Mkuzi River, east of Ubombo, Zululand.)

*Notopogonius leucomelas tongensis* Roberts, Ann. Transvaal Mus., 15, 1932, p. 26, text mention in description of *N. l. centralis*, lapsus for *zuluensis*.

Eastern Southern Rhodesia (Mashonaland) south to the lowlands of eastern Transvaal and western Zululand.

***Tricholaema leucomelan leucomelan* (Boddaert)**

*Bucco leucomelas* Boddaert, Table Pl. enlum., 1783, p. 43. (Cape of Good Hope, *ex* Daubenton, pl. 688, f. 1.)

Southern Cape Province, the Karroo and Orange Free State.



**Tricholaema leucomelan affine** (Shelley)

*Pogonorhynchus affinis* Shelley, Proc. Zool. Soc. London, 1879 (1880), p. 680. (Weenen, Natal.)

Natal.

**Tricholaema diadematum diadematum** (Heuglin)

*Pogonorhynchus diadematus* Heuglin, Ibis, 1861, p. 124, 126, pl. 5. (Steppes of the Kitsch Negros between lat. 7° and 8° N., upper White Nile.)

Upper White Nile eastward across central Ethiopia to northern Somaliland.

**Tricholaema diadematum mustum** Friedmann

*Tricholaema diadematum mustum* Friedmann, Proc. New England Zool. Cl., 11, 1929, p. 35. (Guaso Nyiro River, Kenya Colony.)

Northeastern Uganda eastward through Kenya Colony to Mt. Kenya.

**Tricholaema diadematum massaicum** (Reichenow)

*Pogonorhynchus massaicus* Reichenow, Journ. f. Orn., 35, 1887, p. 59. (Loeru, Tanganyika Territory.)

Southern Kenya Colony and the northern half of Tanganyika Territory.

**Tricholaema diadematum frontatum** (Cabanis)

*Pogonorhynchus frontatus* Cabanis, Journ. f. Orn., 28, 1880, p. 351, pl. 2, f. 1. (Angola.)

*Tricholaema alexandri* Shelley, Bull. Brit. Orn. Cl., 13, 1903, p. 61. (Namwewe, Nyasaland.)

Angola eastward across the Upper Katanga and northern Rhodesia to Nyasaland.

**Tricholaema melanocephalum melanocephalum** (Cretzschmar)

*Pogonias melanocephala* Cretzschmar, in Rüppell's Atlas, 1826, Vög., p. 41, pl. 28, f. a. (Kordofan and Sennar, = Ethiopia? cf. Sclater and Mackworth-Praed, Ibis, 1919, p. 637.)

Bogosland and northern Ethiopia south to Addis Ababa and eastward to near Harar.

**Tricholaema melanocephalum stigmatothorax** Cabanis

*Tricholaema stigmatothorax* Cabanis, Journ. f. Orn., 26, 1878, p. 205, 240. (Ndi, Taita, Kenya Colony.)

Southern Ethiopia and southern Somaliland across the drier parts of Kenya Colony to northern Tanganyika Territory (Dodoma, Morogoro).

**Tricholaema melanocephalum blandi** Phillips

*Tricholæma blandi* Lort Phillips, Bull. Brit. Orn. Cl., 6, 1897, p. xlvii. (Goolis Mts., Somaliland.)

Central and eastern Somaliland.

**Tricholaema flavibuccale** Reichenow

*Tricholaema flavibuccale* Reichenow, Orn. Monatsb., 1, 1893, p. 30. (Wembere Steppe, Tanganyika Territory.)

Known only from the unique type; status uncertain.

**Tricholaema hirsutum hirsutum** (Swainson)

*Pogonias hirsutus* Swainson, Zool. Illustr., 2, 1821-22 (1821), pl. 72. (Africa; Gold Coast designated as type locality by Sclater, Bull. Brit. Orn. Cl., 42, 1922, p. 62.)

Sierra Leone to Togoland.

**Tricholaema hirsutum hybridum** Neumann

*Tricholaema hirsutum hybridum* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 46. (Degama, Southern Nigeria.)

Vicinity of the Niger Delta.

**Tricholaema hirsutum flavipunctatum** Verreaux and Verreaux

*Tricholaema flavipunctata* J. and E. Verreaux, Journ. f. Orn., 3, Mar. 1855, p. 102; Rev. et Mag. Zool. (2), 7, Dec., 1855, p. 555, pl. 14. (Gaboon)

*Tricholaema schultzei* Reichenow, Orn. Monatsb., 19, 1911, p. 82. (Molundu, Cameroons.)

Cameroons and Gaboon to the southern French Congo.

**Tricholaema hirsutum chapini** Bannerman

*Tricholæma hirsutum chapini* Bannerman, Bull. Brit. Orn. Cl., 44, 1924, p. 101. (Uelle River, near Djabia [now Bondo], Belgian Congo.)

Southeastern Cameroons eastward to the Uelle and Ituri districts and south to the Kasai.

**Tricholaema hirsutum angolense** Neumann

*Tricholæma hirsutum angolense* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 47. (Golungo Alto, Angola.)

Lower Congo and northern Angola.

**Tricholaema hirsutum ansorgii** Shelley

*Tricholæma ansorgii* Shelley, Bull. Brit. Orn. Cl., 5, 1895, p. iii. (Uganda; type from Entebbe.)

Forests of the eastern Belgian Congo and of Uganda.

GENUS **LYBIUS** HERMANN

*Lybius* Hermann, Tabl. Affin. Anim., 1783, p. 217, note *n*. Type, by monotypy, *Lybius guifsobalito* Hermann.

*Pogonornis* Billberg, Syn. Faun. Scand., 1, pt. 2, 1828, table A. New name for *Pogonias* Illiger, 1811, not of Lacépède, 1802. Type, by monotypy, *Bucco dubius* Gmelin.

*Erythrobucco* Shelley, Ibis, 1889, p. 475. Type, by original designation and monotypy, *Erythrobucco rolleti* = *Pogonias rolleti* Defilippi.

*Melanobucco* Shelley, Ibis, 1889, p. 476. Type, by original designation, *M. bidentatus* (Shaw) = *Bucco bidentatus* Shaw.

*Apatelornis* Reichenow, Orn. Monatsb., 34, 1926, p. 146. Type, by monotypy, *Apatelornis wachei* Reichenow = *Bucco dubius* Gmelin.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 363-376.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 521-534.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 434-442.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 694.

Macdonald, Ibis, 1938, p. 348-349 (races of *undatus*).

Ripley, Auk, 62, 1945, p. 560-561.

**Lybius undatus thiogaster** Neumann

*Lybius thiogaster* Neumann, Orn. Monatsb., 11, 1903, p. 59. (Keren, Bogosland.)

*Lybius undatus senafensis* Neumann, Bull. Brit. Orn. Cl., 23, 1908, p. 29. (Upper Mareb River, northern Tigré Province, Ethiopia.)

Eritrea and northern Ethiopia.

**Lybius undatus undatus** (Rüppell)

*Pogonias undatus* Rüppell, Neue Wirbelth., Vög., 1837, p. 52, pl. 20, f. 2. (Simen Province, Ethiopia.)

*Melanobucco tsanæ* Ogilvie-Grant, Bull. Brit. Orn. Cl., 13, 1902, p. 29. (Zegi, Lake Tsana, Ethiopia.)

Central Ethiopia from Lake Tsana to Addis Ababa.

**Lybius undatus leucogenys** (Blundell and Lovat)

*Melanobucco leucogenys* Blundell and Lovat, Bull. Brit. Orn. Cl., 10, 1899, p. xxi. (Konduro, western Ethiopia.)

*Lybius undatus gardullensis* Neumann, Bull. Brit. Orn. Cl., 14, 1903, p. 15. (Gardulla, west of Lake Gandjule, Ethiopia.)

Western and southwestern Ethiopia.

**Lybius undatus squamatus** (Heuglin)

*Pogonias squamatus* Heuglin, Journ. f. Orn., 11, 1863, p. 15.  
(Gorgora on Lake Tana, Ethiopia.)

*Lybius undatus salvadorii* Neumann, Bull. Brit. Orn. Cl., 14, 1903, p. 16. (Dinki, near Harar, Ethiopia.)

Harar district of eastern Ethiopia.

**Lybius vieilloti buchanani** Hartert

*Lybius vieilloti buchanani* Hartert, Nov. Zool., 31, 1924, p. 23.  
(Tebeig, Air.)

Southern Sahara from Timbuktu to Aïr and Damergu, probably also eastern Bornu.

**Lybius vieilloti rubescens** (Temminck)

*Pogonias rubescens* Temminck, Pl. col., livr. 34, 1823, Binomial name for *Barbu rubicon* of Le Vaillant. (Senegal.)

*Lybius vieilloti tessmanni* Grote, Orn. Monatsb., 31, 1923, p. 110. (Upper Kadei region, Cameroons.)

Thorn scrub and grass-woodland savanna belt from Senegal to Nigeria and northern Cameroons.

**Lybius vieilloti vieilloti** (Leach)

*Pogonius vieilloti* Leach, Zool. Misc., 2, 1815, p. 104, pl. 97.  
(Africa = Ethiopia by designation of Ogilvie-Grant, Ibis, 1902, p. 426.)

*Lybius vieilloti frater* Neumann, Journ. f. Orn., 65, 1917, Bd. 2, p. 201, note 6. (Barentu, upper Barca River, Ethiopia.)

Darfur to Eritrea and Ethiopia, south to the Uelle district and the Bahr el Ghazal.

**Lybius torquatus albigularis** Neumann

*Lybius zombæ albigularis* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 46. (Songea, Tanganyika Territory.)

Headwaters of the Rovuma River and the region east of Lake Nyasa.

**Lybius torquatus zombæ** (Shelley)

*Melanobucco zombæ* Shelley, Ibis, 1893, p. 10. (Zomba, Nyasaland.)

Highlands south of Lake Nyasa.

**Lybius torquatus pumilio** Grote

*Lybius torquatus pumilio* Grote, Orn. Monatsb., 35, 1927, p. 144.  
(Uvira, north end of Lake Tanganyika, eastern Belgian Congo.)

Region about the northern end of Lake Tanganyika.

**Lybius torquatus irroratus** (Cabanis)

*Pogonorrhynchus irroratus* Cabanis, Journ. f. Orn., 26, 1878, p. 205, 239. (Mombasa, East Africa.)

Coastal districts of East Africa from Lamu to Dar es Salaam and the Morogoro district.

**Lybius torquatus congicus** (Reichenow)

*Melanobucco torquatus congicus* Reichenow, in Werther's mittl. Hochl. nordl. Deutsch-Ost-Afr., 1898, p. 273. (Congo region; type from Malanje, Angola.)

*Barbatula rubrigularis* DuBois, Ann. Mus. Congo, 1, 1905, fasc. 1, p. 1, pl. 1, f. 1. (Katanga.)

Southeastern Congo, southwestern Tanganyika Territory and adjacent parts of Northern Rhodesia and Angola.

**Lybius torquatus torquatus** (Dumont)

*Bucco torquatus* Dumont, Dict. Sci. Nat., éd. Levrault, 4, 1816, p. 56. (Brazil, error = South Africa; Goffin, Mus. Pays Bas 1, 1863, Buccones, p. 4.)

South Africa from Benguela and the Zambesi valley, southward; absent from the dry south-west portion.

**Lybius guifsobalito guifsobalito** Hermann

*Lybius guifsobalito* Hermann,<sup>1</sup> Tabl. Affin. Anim., 1783, p. 217, note *n*. (Ethiopia.)

Bogosland, Eritrea, Ethiopia (except southeastern) and the Blue Nile district of the Sudan.

**Lybius guifsobalito ugandae** Berger

*Lybius tridactylus ugandae* Berger, Orn. Monatsb., 15, 1907, p. 201. (Nimule, Uganda.)

Savannas of the upper White Nile, the Uelle district, western shore of Lake Albert, and Uganda to the north shore of Lake Victoria.

**Lybius rubrifacies** (Reichenow)

*Pogonorrhynchus rubrifacies* Reichenow, Sitzungsab. Deutsche Orn. Ges., 19 Jan., 1892; Journ. f. Orn., 40, 1892, p. 25. (Kimo-ani, south-west of Lake Victoria.)

Region lying west and southwest of Lake Victoria.

**Lybius chaplini** Stevenson Clarke

*Lybius chaplini* Stevenson Clarke, Bull. Brit. Orn. Cl., 41, 1920, p. 50. (Kafue River, lat. 16° S., long. 26° E., Northern Rhodesia.)

<sup>1</sup> Replaces *Lybius abyssinicus* (Latham) of Sharpe's Hand-list.



Lower Kafue valley in Northern Rhodesia.

**Lybius leucocephalus adamauae** Reichenow

*Lybius leucocephalus adamauae* Reichenow, Journ. f. Orn., 69, 1921, p. 46. (Tibati Highlands, Cameroons.)

Savannas of Northern Nigeria, northern Cameroons and the Ubangi-Shari.

**Lybius leucocephalus leucocephalus** (Defilippi)

*Laimodon leucocephalus* Defilippi, Rev. et Mag. Zool. (2), 5, 1853, p. 291. (Between 3° and 4° N. lat., White Nile.)

*Lybius leucocephalus ugandae* Reichenow, Journ. f. Orn., 69, 1921, p. 47, in text (Uganda.) Not *Lybius tridactylus ugandae* Berger, 1907.

Bahr el Ghazal and the Uelle district eastward to the upper White Nile, Mt. Elgon and Ankole.

**Lybius leucocephalus usukumae** Neumann

*Lybius leucocephalus usukumæ* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 46. (Kagehi, Usukuma.)

Southern shores of Lake Victoria.

**Lybius leucocephalus albicauda** (Shelley)

*Pogonorrhynchus albicauda* Shelley, Ibis, 1881, p. 117. (Ugogo, Tanganyika Territory.)

*Melanobucco abboti* Richmond, Auk, 14, 1897, p. 164. (Plains of Taveta, Kenya Colony.)

*Lybius leucocephalus lynesii* Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 58, 1938, p. 65. (Iringa, Tanganyika Territory.)

Southern Kenya Colony and northern districts of Tanganyika Territory south to Dodoma, Irangi and Ugogo.

**Lybius leucocephalus senex** (Reichenow)

*Pogonorrhynchus senex* Reichenow, Journ. f. Orn., 35, 1887, p. 59. (Ukamba, Ikange.)

Central districts of Kenya Colony and country east of Mt. Kenya.

**Lybius leucocephalus leucogaster** (Bocage)

*Pogonorrhynchus leucogaster* Bocage, Journ. Sci. Math. Phys. e Nat., Acad. Real Sci. Lisboa, 6, 1877, p. 63. (Quillengues, Benguella.)

Western Benguella.

**Lybius minor minor** (Cuvier)

*Bucco Levaillantii* Vieillot, Nouv. Dict. Hist. Nat., 3, 1816, p. 243. (Africa.) Not *Bucco levaillanti* Gmelin, 1806.

*Pogonias minor* Cuvier, Règne Anim., 1, 1817 (1816), p. 428, note 2. Based on LeVaillant, Ois de Paradis, pl. A. ("Afrique et aux Indes"; restricted to northern Angola by Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 62, 1942, p. 46.)

Lower Congo and the coast near Landana, south to Benguella.

**Lybius minor intercedens** Neumann

*Lybius levaillanti intercedens* Neumann, Orn. Monatsb., 16, 1908, p. 27. (Manyanga, lower Congo River.)

Belgian Congo between the Congo and lower Kasai rivers, east to Kwamouth and south to the interior of northern Angola.

**Lybius minor macclounii** (Shelley)

*Melanobucco macclounii* Shelley, Bull. Brit. Orn. Cl., 8, 1899, p. xxxv. (Nyasaland; type from Luchinde, north of Lake Nyasa.)

Cuango River across the central Belgian Congo, the Katanga district and Northern Rhodesia to the region north of Lake Nyasa.

**Lybius melanopterus didymus** Grote

*Lybius melanopterus didymus* Grote, Orn. Monatsb., 37, 1929, p. 75. (Solole, southern Somaliland.)

Southern Somaliland.

**Lybius melanopterus melanopterus** (Peters)

*Pogonias (Laimodon) melanopterus* Peters, Ber. Akad. Wiss. Berlin, 1854, p. 134. (Mocimboa, Mozambique.)

Coastal districts of East Africa from the Juba River south to Nyasaland and Mozambique.

**Lybius bidentatus bidentatus** (Shaw)

*Bucco bidentatus* Shaw, Nat. Misc., 10, 1798, pl. 393 and text. ("Barbary".)

Forested parts of West Africa from Portuguese Guinea to Southern Nigeria.

**Lybius bidentatus friedmanni** (Bannerman)

*Pogonornis bidentatus friedmanni* Bannerman, Bull. Brit. Orn. Cl., 53, 1933, p. 124. (Ndala Tando, Angola.)

Southern Cameroons, lower Congo and northern Angola.

**Lybius bidentatus aequatorialis** (Shelley)

*Melanobucco aequatorialis* Shelley, Ibis, 1889, p. 476. (Hparo [i.e. Mparu, near Hoima, Uganda], Equatorial Africa.)

Shari River and the Uelle district to western Kenya Colony and northwestern Tanganyika Territory.

**Lybius bidentatus aethiops** Neumann

*Lybius bidentatus aethiops* Neumann, Bull. Brit. Orn. Cl., 23, 1908, p. 29. (Uba, Omo region, Ethiopia.)

Southern Ethiopia and the adjacent parts of the Sudan.

**Lybius dubius** (Gmelin)

*Bucco dubius* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 409. (Barbary Coast.)

*Apatelornis wachei* Reichenow, Orn. Monatsb., 34, 1926, p. 146. (Upper Gambia.)

West African semi-arid belt from Senegal to the Logone River.

**Lybius rolleti** (Defilippi)

*Pogonias Rolleti* Defilippi, Rev. et Mag. Zool. (2), 5, 1853, p. 290. (Between lat 3° and 4° N., White Nile.)

African Savanna belt from Baguirmi and the Shari region to Darfur and Bahr el Ghazal.

GENUS **TRACHYPHONUS** RANZANI

*Trachyphonus* Ranzani, Elem. di Zool., 3, 1821, pt. 2, p. 157.

Type, by monotypy, *Trachyphonus vaillantii* Ranzani.

*Trachylaemus* Reichenow, Sitzungsab. Deutsche Orn. Ges., 17 Dec., 1891; Journ. f. Orn., 40, 1892, p. 131. Type, by subsequent designation, *Trachyphonus purpuratus* Verreaux and Verreaux. (Reichenow, Vög. Afr., 2, 1903, p. 159.)

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 400-403.

Bowen, Proc. Acad. Nat. Sci. Philadelphia, 84, 1932, p. 9-10.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 488-492.

Friedmann, Bull. U. S. Nat. Mus., no. 153, 1930, p. 457-466.

C. H. B. Grant, Ibis, 1915, p. 448-451.

Grote, Orn. Monatsb., 35, 1927, p. 52.

Neumann, Journ. f. Orn., 76, 1928, p. 785-786.

Ripley, Auk, 62, 1945, p. 562-563.

Zedlitz, Journ. f. Orn., 63, 1915, p. 15-17.

**Trachyphonus purpuratus goffinii** (Schlegel)

*Capito goffinii* Schlegel, Mus. Pays-Bas, 1, 1863, Buccones, p. 72. (Gold Coast.)

West Africa from Sierra Leone to Gold Coast.

**Trachyphonus purpuratus togoensis** (Reichenow)

*Trachylaemus togoensis* Reichenow, Sitzungsab. Deutsche Orn. Ges., 17 Dec., 1891; Journ. f. Orn., 40, 1892, p. 131. (Bismarckburg, Togoland.)

Togoland and southwestern Nigeria.

**Trachyphonus purpuratus purpuratus** Verreaux and Verreaux

*Trachyphonus lurpuratus* [sic] J. and E. Verreaux, Rev. et Mag. Zool. (2), 3, 1851, p. 260. (Gaboön.)

Cameroon Mountain eastward through the Ubangi-Shari to the Aruwimi River and south through Cameroons to northern Angola.

**Trachyphonus purpuratus elgonensis** Sharpe

*Trachyphonus elgonensis* Sharpe, Ibis, 1891, p. 122. (Mt. Elgon, East Africa.)

Northeastern Belgian Congo (southern Uelle and Ituri), eastward across Uganda to Mt. Elgon and the Mau Plateau.

**Trachyphonus vaillantii suahelicus** Reichenow

*Trachyphonus suahelicus* Reichenow, Journ. f. Orn., 35, 1887, p. 60. (Usegua, Tanganyika Territory.)

*Trachyphonus vaillantii suschkini* Grote, Orn. Monatsb., 37, 1929, p. 76. (Tabora, Unyamwezi, Tanganyika Territory.)

Northern Angola, southeastern Congo, and East Africa from the Pangani to the Zambezi.

**Trachyphonus vaillantii nobilis** Ogilvie-Grant

*Trachyphonus nobilis* Ogilvie-Grant, Ibis, 1912, p. 397. (Lake Ngami, 2700 feet, Bechuanaland.)

Bechuanaland: known only from the type in the British Museum.

**Trachyphonus vaillantii vaillantii** Ranzani

*Trachyphonus Vaillantii* Ranzani,<sup>1</sup> Elem. di Zool., 3, 1821, pt. 2, p. 159. (South Africa *ex* LeVaillant = southeastern Cape Province, *fide* Vincent, Bull. Brit. Orn. Cl., 55, 1935, p. 94.)

Southern Africa from about the Zambesi River southward.

**Trachyphonus erythrocephalus gallarum** Neumann

*Trachyphonus erythrocephalus gallarum* Neumann, Journ. f. Orn., 76, 1928, p. 786. (Bussidimo, near Harar, Ethiopia.)

South-central Ethiopia.

**Trachyphonus erythrocephalus shelleyi** Hartlaub

*Trachyphonus shelleyi* Hartlaub, Ibis, 1886, p. 106, pl. 5. (Plateau in the interior of Somaliland.)

<sup>1</sup> Replaces *Picus caffer* Vieillot, 1818, not of Gmelin, 1789.

Eastern Ethiopia, northern and central British Somaliland.

**Trachyphonus erythrocephalus jacksoni** Neumann

*Trachyphonus erythrocephalus jacksoni* Neumann, Journ. f. Orn., 76, 1928, p. 785. (Wajheir, 100 miles north of the Lorian Swamp, northeastern Africa.)

Southern Ethiopia, and central Kenya Colony from the eastern end of Lake Rudolf to the Tana River.

**Trachyphonus erythrocephalus versicolor** Hartlaub

*Trachyphonus versicolor* Hartlaub, Abhandl. naturwiss. Ver. Bremen, 8, Heft 1, 1883, p. 208. (Tarrángole, White Nile.)

Mongalla and northern Uganda, east to Lake Rudolf and south in western Kenya Colony to lakes Baringo and Hannington.

**Trachyphonus erythrocephalus erythrocephalus** Cabanis

*Trachyphonus erythrocephalus* Cabanis, Journ. f. Orn., 26, 1878, p. 206, 241, pl. 2. (Ukamba, Kitui, Kenya Colony.)

Teita, Ukamba and Kikuyu districts of Kenya Colony south into Tanganyika Territory in the region about lakes Manyara and Nguruman.

**Trachyphonus darnaudii darnaudii** (Prévost and Des Murs)

*Micropogon darnaudii* Prévost and Des Murs, in Lefebvre, Voyage en Abyssinie, 6, [1847], p. 133. (Kordofan.)

Kordofan eastward to western Ethiopia, south to northern Uganda, and Kenya Colony west of the Rift Valley.

?**Trachyphonus darnaudii zedlitzi** Berger

*Trachyphonus arnaudi* [sic] *zedlitzi* Berger, Journ. f. Orn., 59, 1911, p. 512. (Between Baringo and Hannington lakes, Kenya Colony.)

Kenya Colony in the region about Lake Baringo; very doubtfully distinct from *T. d. darnaudii*.

**Trachyphonus darnaudii usambiro** Neumann

*Trachyphonus darnaudi usambiro* Neumann, Bull. Brit. Orn. Cl., 23, 1908, p. 30. (Usambiro, Tanganyika Territory.)

Interior of Kenya Colony from the Loita Plains and Lake Naivasha to the Mwanza and Irundi districts of Tanganyika Territory.

**Trachyphonus darnaudii böhmi** Fischer and Reichenow

*Trachyphonus Böhmi* Fischer and Reichenow, Journ. f. Orn., 32, 1884, p. 179. (Pare Mts., Arusha, Ukamba and Barawa, = Barawa, Juba River, *apud* Zedlitz, Journ. f. Orn., 63, 1915, p. 16.)



Southern Italian Somaliland south through eastern Kenya Colony to northeastern Tanganyika Territory.

**Trachyphonus darnaudii emini** Reichenow

*Trachyphonus emini* Reichenow, Sitzungsab. Deutsche Orn. Ges., Feb., 1891; Journ. f. Orn., 39, Apr., 1891, p. 149. (Mpapwa, Tanganyika Territory.) Col. pl., Ibis, 1915, pl. 5.

Central Tanganyika Territory from the Mpapwa and Ugogo districts to the region at the northern end of Lake Nyasa.

**Trachyphonus margaritatus kingi** Bowen

*Trachyphonus margaritatus kingi* Bowen, Proc. Acad. Nat. Sci. Philadelphia, 83, 1931, p. 229. (Erkowit, Red Sea Province, Sudan.)

Red Sea Province of the Anglo-Egyptian Sudan.

**Trachyphonus margaritatus berberensis** Bowen

*Trachyphonus margaritatus berberensis* Bowen, Proc. Acad. Nat. Sci. Philadelphia, 84, 1932, p. 10. (Zeidab, Berber Province, Sudan.)

Arid northern part of the Nile Valley below Khartoum.

**Trachyphonus margaritatus margaritatus** (Cretzschmar)

*Bucco margaritatus* Cretzschmar, in Rüppell's Atlas, 1826, Vög., p. 30, pl. 20. (Sennar.)

Air and extreme northern Nigeria eastward through the semi-arid belt to western Ethiopia.

**Trachyphonus margaritatus somalicus** Zedlitz

*Trachyphonus margaritatus somalicus* Zedlitz, Orn. Monatsb., 18, 1910, p. 57. (Al Dabar, northern Somaliland.)

Central Ethiopia and northern Somaliland.

FAMILY INDICATORIDAE

GENUS PRODOTISCUS SUNDEVALL

*Prodotiscus* Sundevall, Öfv. K. Vet.-Akad. Förh., 7, 1850, p. 109.

Type, by monotypy, *Prodotiscus regulus* Sundevall.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 420-423.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 535-537.

**Prodotiscus insignis flavodorsalis** Bannerman

*Prodotiscus insignis flavodorsalis* Bannerman, Bull. Brit. Orn. Cl., 43, 1923, p. 161. (Béoumi, 650 feet, Ivory Coast.)

Sierra Leone, Ivory Coast and probably Togoland.

**Prodotiscus insignis insignis** (Cassin)

*Heterodes insignis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 8, 1856, p. 157. (Moonda River, Gaboon.)

Southern Cameroons, Gaboon and lower Congo, eastward to the Uelle and Ituri rivers and the Semliki Valley; Uganda and Lake Victoria.

**Prodotiscus insignis ellenbecki** Erlanger

*Prodotiscus ellenbecki* Erlanger, Orn. Monatsb., 9, 1901, p. 182. (Daroli, Arussi Country.)

*Prodotiscus reichenowi* Madarász, Ann. Mus. Nat. Hungarici, 2, 1904, p. 206. (Moschi, Mt. Kilimanjaro.)

Southern Ethiopia and Kenya Colony, south to Tanganyika Territory in the region about Mt. Kilimanjaro and in the Usambara Mts.

**Prodotiscus insignis zambesiae** Shelley

*Prodotiscus zambesiæ* Shelley, Ibis, 1894, p. 8. (Zomba, Nyasaland.)

The Katanga and Lake Tanganyika, south to Southern Rhodesia, Mashonaland and Mozambique, westward to southern Angola.

**Prodotiscus regulus camerunensis** Reichenow

*Prodotiscus regulus camerunensis* Reichenow, Journ. f. Orn., 69, 1921, p. 46. (Bosum, Cameroons.)

Known only from the unique type.

**Prodotiscus regulus regulus** Sundevall

*Prodotiscus regulus* Sundevall, Öfv. K. Vet.-Akad. Förh., 7, 1850, p. 109. ("Caffraria inferiori et superiori"; type from Mohapoani, Witfontein Berge, western Transvaal.)<sup>1</sup>

*Prodotiscus peasei* Ogilvie-Grant, Bull. Brit. Orn. Cl., 11, 1901, p. 67. (Ungi, Ethiopia.)

Sennar and Ethiopia, south through East Africa and the savannas of southeastern Congo to northern Angola and Natal.

GENUS **MELIGNOMON** REICHENOW

*Melignomon* Reichenow, Orn. Monatsb., 6, 1898, p. 22. Type, by original designation, *Melignomon zenkeri* Reichenow.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 418.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 537-538.

<sup>1</sup> See Gyldenstolpe, Ibis, 1934, p. 290.

**Melignomon zenkeri** Reichenow

*Melignomon zenkeri* Reichenow, Orn. Monatsb., 6, 1898, p. 22.  
(Jaunde, Cameroons.)

Southern Cameroons eastward across the Congo forest to the Semliki Valley, perhaps south to northwestern Angola.

## GENUS INDICATOR STEPHENS

*Indicator* Stephens, in Shaw's Gen. Zool., 9, pt. 1, 1815, p. 131.

Type, by tautonymy, *Indicator Sparrmanii* Stephens = *Cuculus indicator* Sparrman.

*Melipodagus* Roberts, Ann. Transvaal Mus., 8, 1922, p. 220.

Type, by original designation, *Indicator variegatus* Lesson.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 131–132.

Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 404–418.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 539–553.

Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 58, 1938, p. 141–145.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 728–737.

Robinson, Bds. Malay Penin., 2, 1928, p. 97–98.

Zedlitz, Journ. f. Orn., 62, 1915, p. 7–14.

**Indicator exilis ansorgei** C. Grant

*Indicator exilis ansorgei* C. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 100. (Gunnal, Portuguese Guinea.)

Portuguese Guinea; known only from Gunnal.

**Indicator exilis leona** C. Grant

*Indicator exilis leona* C. Grant, Bull. Brit. Orn., Cl., 35, 1915, p. 100. (Sierra Leone.)

Apparently known only from the type, taken near Freetown.

**Indicator exilis willcocksii** Alexander

*Indicator willcocksii* Alexander, Bull. Brit. Orn. Cl., 12, 1901, p. 11. (Prahou, Gold Coast.)

Gold Coast Colony; known only from Prahou.

**Indicator exilis hutsoni** Bannerman

*Indicator hutsoni* Bannerman, Bull. Brit. Orn. Cl., 49, 1928, p. 20. (Tatara, Benue Province, Nigeria.)

Northern Nigeria, Southern Nigeria (?) northern Cameroons (?).

**Indicator exilis poensis** Alexander

*Indicator poensis* Alexander, Bull. Brit. Orn. Cl., 13, 1903, p. 33.  
(Bakaki, Fernando Po.)

Island of Fernando Po.

**Indicator exilis exilis** (Cassin)

*Melignotheres exilis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 8, 1856, p. 157. (Moonda River, Gaboon.)

Forests of Southern Nigeria and Cameroons, eastward to the Upper Congo, south to the Kasai and the highlands northwest of Lake Tanganyika.

**Indicator exilis pachyrhynchus** (Heuglin)

*Melignotheres pachyrhynchus* Heuglin, Journ. f. Orn., 12, 1864, p. 266. (Bongo, southeastern Sudan.)

*Indicator pygmaeus* Reichenow, Journ. f. Orn., 40, 1892, p. 24.  
(Bukoba, Lake Victoria.)

Bahr el Ghazal, Uganda, western Kenya Colony and the Bukoba district of Tanganyika Territory.

**Indicator exilis meliphilus** (Oberholser)

*Melignotheres exilis meliphilus* Oberholser, Proc. U. S. Nat. Mus., 28, 1905, p. 869. (Taveta, Kenya Colony.)

*Indicator narokensis* Jackson, Bull. Brit. Orn. Cl., 19, 1906, p. 20. (Doinyo Narok, Kenya Colony.)

*Indicator appelator* Vincent, Bull. Brit. Orn. Cl., 53, 1933, p. 130.  
(Near Zobué, Mozambique-Nyasaland border at 2900 feet in lat. 15° 30' S., long. 34° 37' E.)

Kenya Colony, Usambara Mts. in Tanganyika Territory, southern Nyasaland.

**Indicator exilis angolensis** Monard

*Indicator minor angolensis* Monard, Arquivos Museu Bocage, 5, 1934, p. 55. (Tyihumbwe and Ebanga, Angola.)

Northern Angola.

**Indicator propinquus** Friedmann

*Indicator propinquus* Friedmann, Journ. Washington Acad. Sci., 33, 1943, p. 250. (Donenkeng, Bafia, Cameroons.)

Known only from the unique type.

**Indicator minor senegalensis** Neumann

*Indicator minor senegalensis* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 43. (Thiès, near Dakar, Senegal.)

Senegal and perhaps the French Sudan.

**Indicator minor alexanderi** C. Grant

*Indicator minor alexanderi* C. Grant, Bull. Brit. Orn. Cl., **35**, 1915, p. 99. (Gambaga, Gold Coast Hinterland.)

Northern Territories of Gold Coast Colony and Northern Nigeria, probably through the Shari River district to Darfur.

**Indicator minor riggenbachi** Zedlitz

*Indicator minor riggenbachi* Zedlitz, Journ. f. Orn., **63**, 1915, p. 12. (Tibati, Adamawa highlands.)

Western Cameroons to the Uelle and Lado districts.

**Indicator minor diadematus** Rüppell

*Indicator diadematus* Rüppell, Neue Wirbelth., Vög., 1837, p. 61. (Forested parts of Ethiopia.)

*Indicator lovati* Ogilvie-Grant, Bull. Brit. Orn. Cl., **10**, 1900, p. xxxix. (Gelongol, Ethiopia.)

Eastern Sudan, Ethiopia and Somaliland.

**Indicator minor erlangeri** Zedlitz

*Indicator exilis erlangeri* Zedlitz, Orn. Monatsb., **21**, 1913, p. 59. (Afgoi, southern Somaliland.)

Southern Italian Somaliland and the eastern districts of Kenya Colony.

**Indicator minor teitensis** Neumann

*Indicator minor teitensis* Neumann, Journ. f. Orn., **48**, 1900, p. 195. (Teita, Kenya Colony.)

Uganda and Kenya Colony (except coastal districts), south to Nyasaland.

**Indicator minor minor** Stephens

*Indicator minor* Stephens, in Shaw's Gen. Zool., **9**, pt. 1, 1815, p. 140. (Cape of Good Hope = Zwartkop River, Uitenhage Division, Cape Province, *vide* Grant and Praed, *antea*, p. 144.)

Northern Angola, the Manyema district and the eastern base of Mt. Ruwenzori, south to Natal and Cape Province (excluding Damaraland and Transvaal).

**Indicator minor albigularis** (Roberts)

*Melignotheres Minor Albigularis* Roberts, Ann. Transvaal Mus., **8**, 1922, p. 220. (Woodbush, Transvaal.)

Transvaal.

**Indicator minor damarensis** (Roberts)

*Melignotheres minor damarensis* Roberts, Ann. Transvaal Mus., **12**, 1928, p. 308. (Quickborn, Southwest Africa.)

Damaraland; requires confirmation.



**Indicator conirostris ussheri** Sharpe

*Indicator ussheri* Sharpe, Bull. Brit. Orn. Cl., 12, 1902, p. 80.  
(Fanti, Gold Coast.)

Known only from the type locality.

**Indicator conirostris conirostris** (Cassin)

*Melignotheres conirostris* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 8, 1856, p. 156. (Moonda River, Gaboon.)

Northern Nigeria, western Cameroons and Gaboon, east to Mt. Elgon, Kavirondo and Ruwenzori.

**Indicator variegatus jubaensis** Neumann

*Indicator variegatus jubaensis* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 97. (Jonte, near Kismayu, Italian Somaliland.)

Southern Somaliland to the Usambara region, Tanganyika Territory.

**Indicator variegatus variegatus** Lesson

*Indicator variegatus* Lesson, Traité d'Orn., livr. 2, 1830, p. 155.  
(Africa.)

Southern Ethiopia, interior of Kenya Colony, Uganda, south-eastern Congo and Angola, to Cape Province.

**Indicator maculatus maculatus** G. R. Gray

*Indicator maculatus* G. R. Gray, Gen. Bds., 2, 1847, p. [451], pl. CXIII. (No locality; the type in the British Museum is from Gambia.)

*Indicator feae* Salvadori, Ann. Mus. Civ. Genova, 40, 1901, p. 783. (Farim and Rio Cassine, Portuguese Guinea.)

Gambia to Liberia and Sierra Leone, perhaps to the Gold Coast.

**Indicator maculatus stictithorax** Reichenow

*Indicator stictithorax* Reichenow, Journ. f. Orn., 25, 1877, p. 110.  
(Cameroons.)

*Indicator theresæ* B. Alexander, Bull. Brit. Orn. Cl., 21, 1908, p. 90. (Gudima, Iri River, [Mombattu Country].)

Cameroons and Gaboon, eastward through the heavy forests of Lower Guinea to the upper Kibali River and the eastern edge of the Ituri forest near the Semliki.

**Indicator archipelagus** Temminck

*Indicator archipelagus* Temminck, Pl. col., livr. 91, 1832, pl. 542, f.1. (Pontianak, Borneo.)

*Indicator archipelagus inornatus* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 97. (Klang, Selangor.)

Southwestern Siam (one record), Malay Peninsula, Sumatra, Borneo.

**Indicator indicator** (Sparrman) <sup>1</sup>

*Cuculus indicator* Sparrman, Phil. Trans., 67, 1777, p. 43, pl. 1.  
(Great Fish River, near Somerset East, Cape Province.)

The greater part of Africa from Senegal, Darfur and Eritrea, south to Cape Province; absent from the West African lowland forests and the East African mountain forests.

**Indicator xanthonotus** Blyth

*Indicator xanthonotus* Blyth, Journ. As. Soc. Bengal, 11, pt. 1, 1842, p. 116. (Darjeeling.)

The Himalayas from the Afghan border to eastern Assam.

GENUS **MELICHNEUTES** REICHENOW

*Melichneutes* Reichenow, Orn. Monatsb., 18, 1910, p. 160.

Type, by monotypy, *Melichneutes sommerfeldi* Reichenow  
= *Melignomon robustus* Bates.

*Ceriocleptes* Chapin, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 512, 513, f. 1. Type, by monotypy, *Ceriocleptes xenurus*  
Chapin = *Melignomon robustus* Bates.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 418-420.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 553-556.

**Melichneutes robustus** (Bates)

*Melignomon robustus* Bates, Bull. Brit. Orn. Cl., 25, 1909, p. 26.  
(Bitye, River Ja, Cameroons.)

*Melichneutes sommerfeldi* Reichenow, Orn. Monatsb., 18, 1910,  
p. 160. (Dume region, Cameroons.)

*Ceriocleptes xenurus* Chapin, Bull. Am. Mus. Nat. Hist., 34,  
1915, p. 512, 513, f. 1. (Avakubi, Ituri district, Belgian  
Congo.)

Lowland forests of Cameroons eastward across the Congo to the upper Ituri.

<sup>1</sup> No subspecies are recognizable, cf. C. Grant, Ibis, 1915, p. 430-431.

## SUPERFAMILY RAMPHASTOIDEA

## FAMILY RAMPHASTIDAE

GENUS **AULACORHYNCHUS** GOULD<sup>1</sup>

*Aulacorhynchus* Gould, Proc. Zool. Soc. London, pt. 2, 1834 (1835), p. 147. Type, by subsequent designation, *A. sulcatus* (Swains.) = *Pteroglossus sulcatus* Swainson. (G. R. Gray, List Gen. Bds., 1840, p. 50).

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 334-335; 55, 1926, p. 350-351.

Dickey and van Rossem, Ibis, 1930, p. 48-55.

Germigny, Ois. et Rev. Franç. d'Orn., 11, 1930, p. 593-604 (p. 46-55 of separately paged reprint).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 351-358.

**Aulacorhynchus sulcatus sulcatus** (Swainson)

*Pteroglossus sulcatus* Swainson, Quart. Journ. Sci., Lit. and Arts, 9, 1820, p. 267. (Venezuela.)

Coastal mountains of Venezuela (Cumbre de Valencia, Silla de Caracas, Cerro del Avila).

**Aulacorhynchus sulcatus erythrognathus** (Gould)

*Aulacorhamphus erythrognathus* Gould, Ann. and Mag. Nat. Hist. (4), 14, 1874, p. 184. (Caripe, Venezuela.)

Northeastern Venezuela in the Andes south of Cumaná in State of Sucre.

**Aulacorhynchus calorhynchus** (Gould)

*Aulacorhamphus calorhynchus* Gould, Ann. and Mag. Nat. Hist. (4), 14, 1874, p. 183. (Mérida, Venezuela.)

Santa Marta Mts., Colombia; Sierra de Perijá and Andes of Mérida, Venezuela.

**Aulacorhynchus derbianus derbianus** Gould

*Aulacorhynchus Derbianus* Gould, Proc. Zool. Soc. London, pt. 3, 1835, p. 49. (No locality.)

*Pteroglossus Derbianus* Gould, Monogr. Ramphastidae, pt. 3, 1835, pl. 32. ("Cordillerian Andes"; I designate Province of Húanuco, Perú.)

Eastern Ecuador, Eastern Perú and northeastern Bolivia.

<sup>1</sup> Replaces *Aulacorhamphus* (emendation) G. R. Gray, 1840, of Sharpe's Hand-list.

**Aulacorhynchus derbianus duidae** Chapman

*Aulacorhynchus derbianus duidae* Chapman, Am. Mus. Novit., no. 380, 1929, p. 16. (Aguita, 3250 feet, Mt. Duida, Venezuela.)

Confined to Mt. Duida, Venezuela.

**Aulacorhynchus derbianus whiteliani** (Salvin and Godman)

*Aulacorhamphus whiteliani* Salvin and Godman, Ibis, 1882, p. 83. (Merumé Mts., British Guiana.)

Venezuela on Mt. Auyan-tepui and Mt. Roraima; Merumé Mts., Kanuku Mts. and Quonga, British Guiana.

**Aulacorhynchus derbianus osgoodi** Blake

*Aulacorhynchus derbianus osgoodi* Blake, Field Mus. Nat. Hist., Zool. Ser., 24, 1941, p. 228. (Boundary Camp, 2000 feet, head of Itabu Creek, Acary Mts., British Guiana.)

Acary Mts., British Guiana.

**Aulacorhynchus prasinus wagleri** (Sturm)

*Pteroglossus wagleri* Sturm, Monogr. Ramphastidae, 1841, pl. 16. (No locality = México.)

Southwestern México in mts. of Guerrero and western Oaxaca.

**Aulacorhynchus prasinus prasinus** (Gould)

*Pteroglossus prasinus* Licht. Gould, Proc. Zool. Soc. London, pt. 2, 1834, p. 78. (México = Valle Real *vide* Hellmayr, Nov. Zool., 20, 1913, p. 255.)

Southeastern México in State of Veracruz and adjacent parts of San Luis Potosí, Hidalgo and Oaxaca.

**Aulacorhynchus prasinus stenorhabdus** Dickey and van Rossem

*Aulacorhynchus prasinus stenorhabdus* Dickey and van Rossem, Ibis, 1930, p. 52. (Cerros Los Naranjos, 5000 feet, Volcán Santa Ana, Dept. Sonsonate, El Salvador.)

*Aulacorhynchus prasinus chiapensis* Brodkorb, Auk, 57, 1940, p. 546. (Mt. Ovando, 1900 metres, Chiapas.)

Subtropical zone of the Sierra Madre in Chiapas, western Guatemala and northern El Salvador.

**Aulacorhynchus prasinus virescens** Ridgway

*Aulacorhynchus prasinus virescens* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 88. (Chasniguas, Honduras.)

Northern Guatemala, Quintana Roo, British Honduras, Honduras and northern Nicaragua.

***Aulacorhynchus prasinus volcanius* Dickey and van Rossem**

*Aulacorhynchus prasinus volcanius* Dickey and van Rossem, Ibis, 1930, p. 50, f. 1b, p. 53. (Volcán San Miguel, 3000 feet, Dept. San Miguel, El Salvador.)

Confined to Volcán San Miguel between 2500 and 4000 feet, El Salvador.

***Aulacorhynchus prasinus maxillaris* Griscom**

*Aulacorhynchus caeruleogularis maxillaris* Griscom, Am. Mus. Novit., no. 141, 1924, p. 2. (Guayabo, Costa Rica.)

Highlands of Costa Rica and western Chiriquí.

***Aulacorhynchus prasinus caeruleogularis* (Gould)**

*Aulacorhamphus caeruleogularis* Gould, Proc. Zool. Soc. London, pt. 21, 1853 (1854), p. 45. (Veragua; restricted to Cerro Flores, eastern Chiriquí, by Griscom, Am. Mus. Novit., no. 141, 1924, p. 2.)

Highlands of eastern Chiriquí and Veraguas.

***Aulacorhynchus prasinus cognatus* (Nelson)**

*Aulacorhamphus caeruleigularis cognatus* Nelson, Smiths. Misc. Coll., 60, 1912, no. 3, p. 4. (Mt. Pirri, 5000 feet, Darién.)

Mountains of eastern Darién.

***Aulacorhynchus prasinus griseigularis* (Chapman)**

*Aulacorhynchus* [sic] *alvivitta griseigularis* Chapman, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 639. (Santa Elena, 9000 feet, Central Andes, Colombia.)

Colombia: subtropical to temperate zone at the northern end of the Western Andes and the western slope of the Central Andes.

***Aulacorhynchus prasinus phaeolaemus* (Gould)**

*Aulacorhamphus phaeolaemus* Gould, Ann. and Mag. Nat. Hist. (4), 14, 1874, p. 184. (Concordia in Colombia and Mérida in Venezuela; Western Andes, Colombia fixed by Hellmayr, Proc. Zool. Soc. London, 1911, p. 1213, note.)

*Aulacorhamphus petax* Bangs, Proc. Biol. Soc. Washington, 21, 1908, p. 158. (San Antonio, 5800 feet, Río Cali, Colombia.)

Colombia: subtropical zone of the Western Andes, except at the northern end.

***Aulacorhynchus prasinus lautus* (Bangs)**

*Aulacorhamphus lautus* Bangs, Proc. Biol. Soc. Washington, 12, 1898, p. 173. (San Miguel, 7500 feet, Santa Marta Mts., Colombia.)

Colombia: subtropical zone of the Santa Marta Mts.



**Aulacorhynchus prasinus albivitta** (Boissonneau)

*Pteroglossus albivitta* Boissonneau, Rev. Zool., 1840, p. 70.  
(Bogotá.)

Subtropical zone of the eastern slope of the Central Andes and both slopes of the Eastern Andes of Colombia; Andes of eastern Ecuador (except southeastern); Andes of Mérida, Venezuela.

**Aulacorhynchus prasinus cyanolaemus** (Gould)

*Aulacorhamphus cyanolaemus* Gould, Proc. Zool. Soc. London, 1866, p. 24. (Loxa [*i.e.* Loja], Ecuador.)

Subtropical zone of the Andes of southeastern Ecuador and northern Perú.

**Aulacorhynchus prasinus dimidiatus** (Ridgway)

*Aulacorhamphus dimidiatus* Ridgway, Proc. U. S. Nat. Mus., 9, 1886, p. 93. (Locality unknown.)<sup>1</sup>

Probably inhabits northern Perú in Dept. of Huánuco.

**Aulacorhynchus prasinus atrogularis** (Sturm)

*Pteroglossus atrogularis* Sturm, Monogr. Ramphastidae, 1841, Heft 2, pl. 2 and text. (Andes of Perú; Chanchamayo, central Perú, designated by Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, 1919, p. 380, note a.)

Eastern slopes of the Peruvian Andes in depts. of Ayacucho, Puno and Junín.

**Aulacorhynchus haematopygus sexnotatus** (Gould)

*Aulacorhamphus sexnotatus* Gould, Proc. Zool. Soc. London, 1868, p. 219. (Peru?)

Subtropical zone of southwestern Colombia (Nariño); Andes of western Ecuador.

**Aulacorhynchus haematopygus haematopygus** (Gould)

*Pteroglossus haematopygus* Gould, Proc. Zool. Soc. London, pt. 2, 1834 (1835), p. 147. (No locality given; Concordia, Antioquia, Colombia, designated by Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, 1919, p. 378, note d.)

Subtropical zone of the Western, Central and Eastern Andes of Colombia and Sierra de Perijá in extreme western Venezuela.

<sup>1</sup> The types were found attached to an Indian bead belt from an unknown locality. The describer judged that they came from some part of the upper Orinoco region in Venezuela or from the upper Rio Negro region of Brazil, but it has been shown by Hellmayr (Arch. Naturg., 85, Abth. A, 1920, Heft 10, p. 125) that such is not the case.

**Aulacorhynchus coerulei-cinctis** d'Orbigny

*Aulacorhynchus caerulei-cinctis* d'Orbigny, Voy. Am. Mérid., Ois., livr. 51, 1840, pl. 66, f. 2. (No locality.)

*Pteroglossus (Aulacoramphus) coeruleo-cinctus* Tschudi, Arch. Naturg., 10, 1844, Bd. 1, p. 302. (No locality, *ex* d'Orbigny, pl. 66, f. 2.)

*Aulacorhynchus caeruleo-cinctus* d'Orbigny, Voy. Am. Mérid., Ois., livr., 89, 1847, p. 382. (Yancaché, Chupe and Irupana, Province of Yungas, Bolivia.)

*Aulacorhynchus caeruleicinctus borealis* Carriker, Proc. Acad. Nat. Sci. Philadelphia, 85, 1933, p. 5. (Huacapistána, 7000 feet, Dept. Junín, Perú.)

Subtropical zone of Perú and Bolivia.

**Aulacorhynchus huallagae** Carriker

*Aulacorhynchus huallagae* Carriker, Proc. Acad. Nat. Sci. Philadelphia, 85, 1933, p. 5. (Ucubamba, 6000 feet, Dept. Libertad, Perú.)

Known only from the type, taken on the trail to Ucubamba in the Huallaga Valley east of Tayabamba, Perú.

GENUS **PTEROGLOSSUS** ILLIGER

*Pteroglossus* Illiger, Prodomus, 1811, p. 202. Type, by subsequent designation, *Ramphastos aracari* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 50.)

*cf.* Griscom and Greenway, Bull. Mus. Comp. Zool., 88, 1941, p. 196-198.

Hellmayr, Nov. Zool., 18, 1910, p. 397-400.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 328-333.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 340-348.

SUBGENUS **PTEROGLOSSUS** ILLIGER**Pteroglossus torquatus torquatus** (Gmelin)

*Ramphastos torquatus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 354. (México; restricted to Veracruz by Brodkorb, *infra*.)

*Pteroglossus torquatus esperanzae* Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 401, 1939, p. 6. (Finca Esperanza, 145 metres, Chiapas.)

Tropical zone from Veracruz and Oaxaca southward (except region occupied by the next race) through Central America to the Canal Zone (except region inhabited by *P. t. frantzii*).

**Pteroglossus torquatus erythrozonus** Ridgway

*Pteroglossus torquatus erythrozonus* Ridgway, Proc. Biol. Soc. Washington, 25, 1912, p. 88. (Temax, Yucatán.)

Southeastern México in states of Campeche, Yucatán and Quintana Roo; northern Guatemala in Dept. of Petén; British Honduras.

**Pteroglossus torquatus frantzii** Cabanis

*Pteroglossus Frantzii* Cabanis, Sitzungsber. Nat. Ges. Freunde Berlin, Nov., 1861. (Costa Rica, type from Aguacate.)

Tropical zone of the Pacific slope of Costa Rica south of the Gulf of Nicoya, and adjacent parts of western Panamá.

**Pteroglossus torquatus nuchalis** Cabanis

*Pteroglossus nuchalis* Cabanis, Journ. f. Orn., 10, 1862, p. 332. (Puerto Cabello, Venezuela.)

Tropical zone of northern Colombia in the lower Cauca and Magdalena valleys and the Santa Marta region; coast region of northern Venezuela.

**Pteroglossus torquatus pectoralis** Todd

*Pteroglossus torquatus pectoralis* Todd, Proc. Biol. Soc. Washington, 56, 1943, p. 160. (Santa Elena, Zulia, Venezuela.) Maracaibo basin, Venezuela.

**Pteroglossus sanguineus** Gould

*Pteroglossus sanguineus* Gould, Monogr. Rhamphastidae, ed. 2, 1854, pl. 21, upper fig. and text, part. (No locality given; San José, western Colombia suggested by Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 333.)

The entire tropical west coast of Colombia and northwestern Ecuador.

**Pteroglossus erythropygius** Gould

*Pteroglossus erythropygius* Gould, Proc. Zool. Soc. London, pt. 11, 1843, p. 15. (No locality = Realejo, Central America, *ex* Gould, Zool. Voy. 'Sulphur', Bds, 1844, p. 46; error = Ecuador.)

Western Ecuador from the Chandron Valley to Esmeraldas.

**Pteroglossus castanotis castanotis** Gould

*Pteroglossus castanotis* Gould, Proc. Zool. Soc. London, pt. 1, 1833 (1834), p. 119. (Brazil, restricted to the Rio Solimões by Hellmayr.)

Eastern Colombia, eastern Ecuador and northeastern Perú, east to the Rio Negro and the north bank of the Solimões.

**Pteroglossus castanotis australis** Cassin

*Pteroglossus castanotis* b. *australis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1867, p. 112. (Río Paraná.)

*Pteroglossus attalorhynchus* M. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 29. (Salto Guará, Puerto Bertoni and Río Mondaih, Paraguay.)

Eastern Bolivia; western Brazil from the Juruá south and east in states of Mato Grosso, Goiás, Minas Gerais, São Paulo and Paraná; Paraguay; northeastern Argentina in Territory of Misiones.

**Pteroglossus aracari roraimae** Brabourne and Chubb

*Pteroglossus roraimae* Brabourne and Chubb, Ann. and Mag. Nat. Hist. (8), 10, 1912, p. 261. (British Guiana.)

Southern and eastern Venezuela, British Guiana and Surinam.

**Pteroglossus aracari atricollis** (P. L. S. Müller)

*Ramphastos atricollis* P. L. S. Müller, Natursyst., Suppl., 1776, p. 83. (Brazil; error = Cayenne by substitution of Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 102.)

*Pteroglossus aracari amazonicus* Pinto, Rev. Mus. Paulista, 19, 1935, p. 157. (Northern Brazil.)

Cayenne; Brazil north of the Amazon west at least to Obidos.

**Pteroglossus aracari aracari** (Linné)

*Ramphastos Aracari* Linné, Syst. Nat., ed. 10, 1, 1758, p. 104. ("America meridionali" = Brazil.)

*Pteroglossus wiedii* Sturm, Monogr. Ramphastidae, pt. 4, 1847. (Southern Brazil; Rio de Janeiro designated as type locality by Pinto, 1938, p. 329.)

Amazonian Brazil south of the Amazon, west to the Rio Madeira and southward in the coastal states to Espírito Santo and probably Rio de Janeiro.

**Pteroglossus aracari vergens** Griscom and Greenway

*Pteroglossus aracari vergens* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 431. (Valparaíso, São Paulo.)

Brazil in states of Minas Gerais and São Paulo; this is probably the race occurring in Paraná and Santa Catarina.

**Pteroglossus pluricinctus** Gould

*Pteroglossus pluricinctus* Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 157. (Brazil; restricted to the Rio Solimões by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 101.)

Tropical zone from the llanos de Meta, eastern Colombia to

eastern Ecuador and eastern Perú and eastward to the upper Orinoco, Mt. Duida and the upper Rio Negro.

**Pteroglossus viridis humboldti** Wagler

*Pteroglossus Humboldti* Wagler, Syst. Av., 1827, Pteroglossus, sp. 4. (Brazil.)

Southeastern Colombia, eastern Ecuador, northeastern Perú and adjacent parts of western Brazil east to the Rio Solimões and the Rio Madeira, and northern Bolivia.

**Pteroglossus viridis didymus** Sclater

*Pteroglossus didymus* Sclater, Proc. Zool. Soc. London, 1890, p. 403. (Upper Amazonia.) Col. pl., Cat. Bds. Brit. Mus., 19, pl. 6.

Range not known.<sup>1</sup>

**Pteroglossus viridis viridis** (Linné)

*Ramphastos viridis* Linné, Syst. Nat., ed. 12, 1, 1766, p. 150. (Cayenne.)

Eastern Venezuela, the Guianas, and Brazil north of the Amazon east to Obidos.

**Pteroglossus viridis inscriptus** Swainson

*Pteroglossus inscriptus* Swainson, Zool. Illustr., 2, 1822, pl. 90 and text. (Interior of Guiana; error = Pará, by designation of Hellmayr, Nov. Zool., 17, 1910, p. 399.)

Amazonian Brazil south of the Amazon from the Guaporé and the Madeira to Pará, extending eastward to Maranhão and Pernambuco and south to northwestern Mato Grosso.

**Pteroglossus bitorquatus sturmii** Natterer

*Pteroglossus sturmii* Natterer in Sturm's Monogr. Ramphastidae, 3, 1842, p. 3, pl. 7. (Borba, Brazil.)

Right bank of the Rio Madeira from Borba to Calama and the Rio Gy-Paraná, extending into northwestern Mato Grosso.

**Pteroglossus bitorquatus reichenowi** E. Snethlage

*Pteroglossus reichenowi* E. Snethlage, Orn. Monatsb., 15, 1907, p. 195. (Monte Alegre, lower Amazon.)

South bank of the lower Amazon between the Tapajóz and the Tocantins.

<sup>1</sup> Known only from the unique type in the British Museum; *P. didymus* is almost certainly a race of *P. viridis* from which it is said to differ in having brown tibiae and a black streak on the culmen.



**Pteroglossus bitorquatus bitorquatus** Vigors

*Pteroglossus bitorquatus* Vigors, Zool. Journ., 2, 1826, p. 481.  
(No locality = northeastern Brazil.)

South bank of the lower Amazon east of the Tocantins, and adjacent parts of northern Maranhão.

**Pteroglossus olallae** Gyldenstolpe

*Pteroglossus olallae* Gyldenstolpe, Ark. Zool., 33B, 1942, no. 12, p. 8. (João Pessoa, Rio Juruá, Brazil.)

Known only from the unique type, taken on the left bank of the upper Rio Juruá, Amazonas, Brazil.

**Pteroglossus flavirostris flavirostris**<sup>1</sup> Fraser

*Pteroglossus flavirostris* Fraser, Proc. Zool. Soc. London, pt. 8, 1840 (1841), p. 61. (New name for the species figured as *Pteroglossus azarae* in Gould's Monogr. Ramphastidae, Rio Negro on the Amazon; = Rio Solimões, Brazil, substituted by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 101.)

Amazonian Colombia and eastern Ecuador eastward to southern Venezuela (Rio Caura, Mt. Duida) and northwestern Brazil (upper Rio Negro region and the upper Rio Solimões); Cayenne (?).

**Pteroglossus flavirostris azara** (Vieillot)

*Ramphastos Azara* Vieillot, Nouv. Dict. Hist. Nat., 34, 1819, p. 282. (Brazil.)

Western Brazil between the lower Rio Negro and the north bank of the Solimões.

**Pteroglossus mariae** Gould

*Pteroglossus mariæ* Gould, Monogr. Ramphastidae, ed. 2, 1854, pl. 30 and text. (Lower Amazon; "Peruvian Amazons" substituted by Hellmayr, Nov. Zool., 14, 1907, p. 83.)

Northeastern Perú, and western Brazil east to the Purús, chiefly south of the Solimões; northern Bolivia (Puerto Salinas, Rio Chapare).

SUBGENUS **BEAUHARNAISIUS** BONAPARTE

*Beauharnaisius* Bonaparte, Consp. Av., 1, 1850, p. 95. Type, by tautonymy, *Pteroglossus beauharnaesii* Wagler.

**Pteroglossus beauharnaesii** Wagler

*Pteroglossus Beauharnaesii* Wagler, Isis von Oken, 1832, col. 280. (State of Pará, Brazil; upper Amazonian region of

<sup>1</sup> *P. flavirostris*, *P. azara* and *P. mariae* probably constitute a single specific entity, but see Todd, Proc. Biol. Soc. Washington, 56, 1943, p. 161-162.

eastern Perú substituted by Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 373, note a.)

Amazonian Perú, western Brazil east to the Rio Madeira, and northern Bolivia.

#### GENUS *SELENIDERA* GOULD

*Selenidera* Gould, Icon. Av., pt. 1, 1837, pl. [7] and text. Type, by subsequent designation, *S. Gouldii* (Natt.) = *Pteroglossus gouldii* Natterer (G. R. Gray, List Gen. Bds., 1840, p. 50.)  
cf. Germiny, Ois. et Rev. Franç. d'Orn., 11, 1930, p. 589-593 (p. 41-45 of separately paged reprint).

Ridgway, Bul. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 348-351.

#### *Selenidera spectabilis* Cassin

*Selenidera spectabilis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1857, p. 214. (Cucuyos de Veragua, Panamá.)

Caribbean slope of Central America from Honduras to Darién; northwestern Colombia, and the lower Cauca Valley.

#### *Selenidera culik* (Wagler)

*Pteroglossus Culik* Wagler, Syst. Av., 1827, *Pteroglossus*, sp. 10. (Cayenne.)<sup>1</sup>

The Guianas, and northern Brazil north of the Amazon from the Rio Negro to Obidos.

#### *Selenidera reinwardtii* (Wagler)

*Pteroglossus Reinwardtii* Wagler, Syst. Av., 1827, *Pteroglossus*, sp. 11. (Brazil.)

Amazonian Colombia, eastern Ecuador, and northeastern Perú on the Río Ucayali and in the Moyobamba-Yurimaguas region.

#### *Selenidera langsdorffii* (Wagler)

*Pteroglossus Langsdorffi* Wagler, Syst. Av., 1827, *Pteroglossus*, sp. 12. (Brazil, restricted to Tefé, Rio Solimões, by Gyldenstolpe, K. Svenska Vet. Akad. Handl., 22, 1945, no. 3, p. 116.)

Eastern Perú from the lower Ucayali and the Moyobamba-Yurimaguas region<sup>2</sup> south to the Río Comerciato and eastward into western Brazil to the Solimões (Tefé) and probably the Purús.

<sup>1</sup> Replaces *Ramphastos piperivorus* Linné, not identifiable.

<sup>2</sup> Were it not for the fact that both *S. reinwardtii* and *S. langsdorffii* are recorded from the same region in northeastern Perú they would be considered conspecific; indeed it seems highly probable that they are conspecific and that the apparent overlap may be due to intermingling of populations during the non-breeding season.

**Selenidera nattereri** (Gould)

*Pteroglossus Nattereri* Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 157. (Brazil.)

Eastern Venezuela (Caura River); northwestern Brazil (upper Rio Negro, Rio Uaupés, Rio Solimões (Tonantins)); recorded by Gould from the Rio Madeira and specimens listed from British Guiana and Cayenne in Cat. Bds. Brit. Mus., 19, p. 152; also attributed to Surinam.

**Selenidera maculirostris hellmayri** Griscom and Greenway

*Selenidera maculirostris hellmayri* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 431. (Boim, Rio Tapajóz, Brazil.)

Amazonian Brazil south of the Amazon from the lower Rio Madeira to the left bank of the Tapajóz.

**Selenidera maculirostris gouldii** (Natterer)

*Pteroglossus Gouldii* Natterer, Proc. Zool. Soc. London, pt. 5, 1837, p. 44. (Pará.)

Northeastern Brazil south of the Amazon from the right bank of the Tapajóz east to the Capim.

**Selenidera maculirostris maculirostris** (Lichtenstein)

*Pteroglossus maculirostris* Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 7. (Brazil.)

Southeastern Brazil in states of Baía, Espírito Santo, Rio de Janeiro, Minas Gerais, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul.

GENUS **ANDIGENA** GOULD

*Andigena* Gould, Proc. Zool. Soc. London, pt. 18, 1850 (1851), p. 93. Type, by subsequent designation, *Pteroglossus hypoglaucus* Gould. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 85.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 330-332; 55, 1926, p. 85, f. 12; p. 347-348.

Germiny, Ois. et Rev. Franç. d'Orn., 11, 1930, p. 473-480 (p. 19-26 of reprint).

SUBGENUS **BAILLONIUS** CASSIN

*Bailloni* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1867, p. 114. Type, by monotypy and virtual tautonymy, *Ramphastos bailloni* Vieillot.

**Andigena bailloni** (Vieillot)

*Ramphastos Bailloni* Vieillot, Nouv. Dict. Hist. Nat., **34**, 1819, p. 283. (No locality = Brazil *ex* LeVaillant, Hist. Nat. Toucans, no. 18.)

Southeastern Brazil in states of Espirito Santo, Rio de Janeiro, São Paulo, Paraná and Santa Catarina.

SUBGENUS **ANDIGENA** GOULD**Andigena laminirostris** Gould

*Andigena laminirostris* Gould, Proc. Zool. Soc. London, pt. 18, 1850 (1851), p. 93. (Quito, Ecuador.)

Subtropical and temperate zones of southwestern Colombia and western Ecuador south to the Río Chanchan.

**Andigena hypoglauca hypoglauca** (Gould)

*Pteroglossus hypoglaucus* Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 70. (No locality; Colombia designated by Bourne and Chubb, Bds. So. Am., 1, 1912, p. 157.)

Humid temperate zone of the Central Andes of Colombia.

**Andigena hypoglauca lateralis** Chapman

*Andigena hypoglaucus lateralis* Chapman, Am. Mus. Novit., no. 96, 1923, p. 5. (Rumicruz, 9700 feet, Junín, Perú.)

Humid temperate zone of eastern Ecuador and eastern Perú.

**Andigena cucullata** (Gould)

*Pteroglossus cucullatus* Gould, Proc. Zool. Soc. London, pt. 14, 1846, p. 69. (Forests of Cocapata, Cochabamba, Bolivia.)

Humid temperate zone of the Andes of Perú (Chachapoyas, Tamiapampa, Pumamarca) and Bolivia (Tilotilo, forests of Cocapata, Incachaca, San Cristóbal).

**Andigena nigrirostris occidentalis** Chapman

*Andigena nigrirostris occidentalis* Chapman, Bull. Am. Mus. Nat. Hist., **34**, 1915, p. 385. (San Antonio, 6600 feet, Western Andes above Cali, Colombia.)

Subtropical zone of the Western Andes of Colombia.

**Andigena nigrirostris spilorhynchus** Gould

*Andigena spilorhynchus* Gould, Proc. Zool. Soc. London, pt. 26, 1858, p. 149. ("Forest of Beza, on the eastern side of the Cordillera in Ecuador.")

Subtropical and temperate zones of the Central Andes of Colombia and northeastern Ecuador.

**Andigena nigristrois nigristrois** (Waterhouse)

*Pteroglossus nigristrois* Waterhouse, Proc. Zool. Soc. London, pt. 7, 1839, p. 111. (No locality; Subia, near La Mesa, Colombia, designated by Chapman, *antea*, 1917, p. 331.)

Subtropical zone of the Eastern Andes of Colombia.

GENUS **RAMPHASTOS** LINNÉ

*Ramphastos* Linné, Syst. Nat., ed. 10, 1, 1758, p. 103. Type, by subsequent designation, *Ramphastos erythrorhynchus* Gmelin = *Ramphastos tucanus* Linné (Vigors, Zool. Journ., 2, 1826, p. 471.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., 34, 1917, p. 328-330; 55, 1926, p. 344-347.

Ridgway and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 427-430.

Gyldenstolpe, K. Svenska Vet.-Akad. Handl., (3), 22, 1945, no. 3, p. 112-114; 23, 1945, no. 1, p. 123-125.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 324-328.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 330-340.

Todd, Proc. Biol. Soc. Washington, 56, 1943, p. 153-160.

**Ramphastos vitellinus culminatus** Gould

*Ramphastos culminatus* Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 70. (México, error = Rio Solimões, Brazil, by designation of Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 101.)

Upper Amazonia east of eastern base of the Andes from Colombia to Bolivia and eastward to southern Venezuela, the Rio Madeira and western Mato Grosso.

**Ramphastos vitellinus vitellinus** Lichtenstein

*Ramphastos vitellinus* Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 7. (Cayenne.)

Island of Trinidad; Venezuela (except southern), the Guianas, and Brazil north of the Amazon and east of the Rio Negro.

**Ramphastos vitellinus ariel** Vigors

*Ramphastos ariel* Vigors, Zool. Journ., 2, 1826, p. 466. (Rio de Janeiro.)

Brazil south of the Amazon from the Rio Tapajóz to Pernambuco (not recorded from Ceará and Piauí and replaced by allied forms on the upper Parnaíba and in Goiás), thence extending



southward through Baía, Minas Gerais, Espirito Santo, Rio de Janeiro and São Paulo to Santa Catarina.

NOTE. *Ramphastos osculans* Gould, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 156. (Brazil, restricted to the upper Rio Negro by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 100) and *Ramphastos osculans berliozi* Germiny, Ois., 11, 1930, p. 470. (Rio Negro, Brazil), represent an unstable population occurring where the ranges of *culminatus*, *vitellinus* and *ariel* adjoin; cf. Hellmayr, Ois. et. Rev. Franç. d'Orn. (n.s.), 3, 1933, p. 244-251.

### **Ramphastos vitellinus pinto** Peters

*Ramphastos* [sic] *vitellinus pinto* Peters, Proc. New England Zool. Cl., 23, 1945, p. 79. (Jaragua, Rio das Almas, Goiás, Brazil.)

Southern Goiás (Catalao, Jaragua, Inhumas) and western São Paulo (Itapura).

### **Ramphastos vitellinus theresae** Reiser

*Ramphastos theresae* Reiser, Anz. K. Akad. Wiss. Wien, Math.-Naturwiss. Kl., 42, 1905, p. 322. (Rio Parnaíba, Piauí, Brazil.)

The upper Parnaíba in Piauí and Maranhão.

### **Ramphastos dicolorus** Linné

*Ramphastos dicolorus* Linné, Syst. Nat., ed. 12, 1, 1766, p. 152. (Cayenne, error = southeastern Brazil.)

Southeastern Brazil in states of Goiás, Minas Gerais, Espirito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina.

### **Ramphastos citreolaemus** Gould

*Ramphastos citreolaemus* Gould, Proc. Zool. Soc. London, pt. 11, 1843 (1844), p. 147. (Bogotá, Colombia.)

Colombia in the Magdalena and lower Cauca valleys; recorded from the Maracaibo basin in Venezuela.

### **Ramphastos sulfuratus sulfuratus** Lesson<sup>1</sup>

*Ramphastos sulfuratus* Lesson, Traité d'Orn., livr. 3, July, 1830, p. 173. (México.)

*Ramphastos poecilorhynchus* Lichenstein, Preiss-Verzeichn. Säugeth. Vög. Mexico gesam., 1830, p. 1. (México.)

Southeastern México from Puebla, Oaxaca and Veracruz, south to northern Guatemala and British Honduras.

<sup>1</sup> Replaces *Ramphastos piscivorus* Linné, 1766, not identifiable cf. Peters, Auk, 48, 1930, p. 406-407.

**Ramphastos sulfuratus brevicarinatus** Gould

*Ramphastos brevicarinatus* Gould, Monogr. Ramphastidae, ed. 2, 1854, pl. 3 and text. (Western side of the Isthmus of Panamá.)

*Ramphastos sulfuratus intermedius* Carriker and de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, 87, 1935, p. 427. (Quirigua, Guatemala.)

Central America from southeastern Guatemala to Panamá, across northern Colombia to the Santa Marta region and adjacent parts of Venezuela (Perijá).

**Ramphastos swainsonii** Gould

*Ramphastos Swainsonii* Gould, Proc. Zool. Soc. London, pt. 1, 1833, p. 69. (Mountains of Colombia.)

Southeastern Honduras to western Ecuador, eastward in Colombia to the Magdalena River.

**Ramphastos ambiguus brevis** de Schauensee

*Ramphastos ambiguus brevis* de Schauensee, Proc. Acad. Nat. Sci. Philadelphia, 97, 1945, p. 14. (Río Mechengue, 2500 feet, Cauca, Colombia.)

Pacific Darién through western Colombia west of the Western Andes to western Ecuador.

**Ramphastos ambiguus ambiguus** Swainson

*Ramphastos ambiguus* Swainson, Zool. Illustr., 3, 1823, pl. 168 and text. (No locality = Buenavista, Colombia, by designation of Chapman, Bull. Am. Mus. Nat. Hist., 34, 1917, p. 328.)

*Ramphastos abbreviatus* Cabanis, Journ. f. Orn., 10, 1862, p. 334. (Puerto Cabello, Venezuela.)

*Ramphastos innominatus* Todd, Proc. Biol. Soc. Washington, 56, 1943, p. 158. (El Tambor, Santander, Colombia.)

Subtropical zone, Eastern Andes of Colombia, Ecuador and Perú, and at the head of the Magdalena River in Colombia; mountains of northern and western Venezuela.

**Ramphastos aurantirostris** Hartert

*Ramphastos monilis aurantirostris* Hartert, Nov. Zool., 32, 1925, p. 143. (Essequibo River, British Guiana.)<sup>1</sup>

Venezuela, British Guiana, Surinam, Cayenne (trade skins).

<sup>1</sup> The specific arrangement of the Toucans of the *aurantiurostris-tucanus-cuvieri-inca* group depends upon the importance attached to bill color. Little is known of the possible changes in the color of this member due to age or season; there is much post-mortem fading and usually no collectors' notes on the color during life. Furthermore there is no information available as to any possible seasonal movements which might account for the presence of two of these "species" at the same locality.

**Ramphastos tucanus** Linné

*Ramphastos Tucanus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 103.  
(South America, restricted to Surinam by Griscom and Greenway, *antea*, p. 430.)

*Ramphastos haematorhynchus* Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 99. (La Prición, Caura River, Venezuela.)

Southeastern Venezuela east of the Caura River, the Guianas and northern Brazil, chiefly north of the Amazon and west to Manaus, but extending into Maranhão.

**Ramphastos cuvieri cuvieri** Wagler

*Ramphastos Cuvieri* Wagler, Syst. Av., 1827, *Ramphastos*, sp. 5. (Brazil, on the Amazon; restricted to Borba, Rio Madeira by Griscom and Greenway, *antea*, p. 429.)

Eastern Colombia, eastern Ecuador, eastern Perú and northern Bolivia, eastward to southern Venezuela (upper Orinoco, Mt. Duida), and the Rio Tapajóz.

**Ramphastos cuvieri oblitus** Griscom and Greenway

*Ramphastos tucanus oblitus* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 427. (Tauary, Rio Tapajóz, Brazil.)

Amazonian Brazil from the Tapajóz, eastward to the upper Tocantins.

**Ramphastos inca** Gould

*Ramphastos Inca* Gould, Proc. Zool. Soc. London, pt. 14, 1846, p. 68. (Chimorée in the country of the Yuracares Indians, Bolivia.)

Eastern Bolivia.

**Ramphastos toco toco** P. L. S. Müller

*Ramphastos Toco* P. L. S. Müller, Natursyst., Suppl., 1776, p. 82. (Cayenne, *ex* Buffon.)

The Guianas, northern and eastern Brazil south to the vicinity of Belém; the Maranhão specimen may be referable here. Identity of the race inhabiting Piauí and Baía not known.

**Ramphastos toco albogularis** Cabanis

*Ramphastos albogularis* Cabanis, Journ. f. Orn., 10, 1862, p. 334. (Southern Brazil.)

Brazil in states of Goiás, Minas Gerais, São Paulo, Mato Grosso, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northern Argentina in Salta, Tucumán, Chaco and Misiones; Bolivia.<sup>1</sup>

<sup>1</sup> Birds from Bolivia and northwestern Argentina may possibly represent an undescribed race.

## SUBORDER PICI

## FAMILY PICIDAE

## SUBFAMILY JYNGINAE

## GENUS JYNX LINNÉ

*Jynx* Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. Type, by monotypy, *Jynx torquilla* Linné.

cf. C. Grant, Ibis, 1915, p. 470-473.

C. Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 59, 1939, p. 72, 113.

Hartert, Vög. pal. Fauna, 2, Heft 1, 1912, p. 937-941; 3, Heft 4/5, 1922, p. 2140.

Hartert and Steinbacher, *op. cit.*, Ergänzungsb., Heft 4, 1935, p. 377-378.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 141-145.

Witherby *et al*, Handb. Brit. Bds., 2, 1938, p. 292-296.

***Jynx torquilla torquilla* Linné**

*Jynx Torquilla* Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. (Europe = Sweden *ex* Fn. Sv.)

*Iynx torquilla sarudnyi* Loudon, Orn. Monatsb., 20, 1912, p. 44. (Transcaspiä.)

*Iynx torquilla hyrcana* Sarudny, Orn. Mitt., 4, 1913, p. 141. (Rescht, Gilan.)

*Iynx torquilla harterti* Poljakov, Orn. Mitt., 6, 1915, p. 135. (Smeinogorsk dist. and Saissansk, Minussinsk dist. and Krassnoyarsk.)

Breeds in Europe and western Asia from southern England, northern Scandinavia, Finland, Russia and western Siberia, north to lat. 64° N. on the Yenissei and east to Lake Baikal, south to the Pyrennees, the Alps, Yugoslavia, Bulgaria, the Caucasus and Tien Shan. Winters in the Mediterranean region, Africa south to the Equator, and India.

***Jynx torquilla tschusii* Kleinschmidt**

*Jynx torquilla tschusii* Kleinschmidt, Falco, 1907, p. 103. (Sardinia.)

Resident in Italy and Dalmatia and on Sardinia and Corsica; the resident bird of Spain is probably referable to this race.

***Jynx torquilla mauretanica* Rothschild**

*Iynx torquilla mauretanica* Rothschild, Bull. Brit. Orn. Cl., 23, 1909, p. 103. (Algeria; type from Hammam Meskoutine.)

Northern Algeria; perhaps adjacent parts of Morocco and Tunisia.

***Jynx torquilla chinensis* Hesse**

*Jynx torquilla chinensis* Hesse, Orn. Monatsb., 19, 1911, p. 181.  
(China; type from Tsingtau [= Tsingtao, Shantung].)

*Jynx torquilla pallidior* Rensch, Abh. Ber. Mus. Dresden, 16, 1924, no. 2, p. 40. (Sungpan, upper Min River, Szechwan.)

*Jynx torquilla intermedia* Stegmann, Bull. Brit. Orn. Cl., 47, 1927, p. 73. (Chita, Siberia.)

*Jynx torquilla incognita* Stachanov, Alauda, 5, 1933, p. 250.  
("Bana Djoutou, ♂ and Tschourschewnij ♀".)

Breeds from the southern end of Lake Baikal, northern Manchuria and the Amur south to northern India, northern Szechwan and the Yangtze Valley. Winters in India, Burma, southern China, Siam and northern Indochina.

***Jynx torquilla japonica* (Bonaparte)**

*Jynx japonica* Bonaparte, Consp. Av., 1, 1850, p. 112. (Japan.)

*Jynx torquilla hokkaidi* Kuroda, Auk, 38, 1921, p. 582. (Yubetsu, Prov. Kitami, Hokkaido.)

Breeds on Sakhalin and Hokkaido; winters south to Shikoku and Kyushu.

***Jynx ruficollis thorbeckei* Reichenow**

*Jynx thorbeckei* Reichenow, Orn. Monatsb., 20, 1912, p. 126.  
(Chang, Cameroons.)

Highland savanna country of middle Cameroons.

***Jynx ruficollis pulchricollis* Hartlaub**

*Jynx pulchricollis* Hartlaub, Ibis, 1884, p. 28, pl. 3. (Babira, east of Bahr el Jebel.)

French middle Congo to southwestern Sudan and northwestern Uganda.

***Jynx ruficollis aequatorialis* Rüppell**

*Jynx aequatorialis* Rüppell, Mus. Senckenbergianum, 3, 1842, p. 121. (Southern provinces of Ethiopia.)

Ethiopia.

***Jynx ruficollis cosensi* C. Grant**

*Jynx ruficollis cosensi* C. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 102. (Amala River, 5400 feet, Kenya Colony.)

Inland portions of Kenya Colony and Tanganyika Territory.



***Jynx ruficollis ruficollis* Wagler**

*Jynx ruficollis* Wagler, Nat. Syst. Amphibien, 1830, p. 118, note.  
(Kaffirland = Uitenhage, eastern Cape Province.)

Southern Africa from Landana, the Alima River, the Kivu Volcanos and Nyasaland, south to Cape Province.

**SUBFAMILY PICUMNINAE****GENUS PICUMNUS TEMMINCK**

*Picumnus* Temminck, Pl. col., livr. 62, 1825, text to pl. 371.

Type, by subsequent designation, *Picus minutissimus* (Gm.)

Temm., Pl. enl. 786, f. 1 = *Picumnus buffoni* Lafresnaye.  
(G. R. Gray, List Gen. Bds., 1840, p. 54.)

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 92-95.  
Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 356-358;  
55, 1926, p. 370-372.

Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, no. 2, pt. 2,  
1919, p. 501-511.

Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925,  
p. 287-308.

Hartert, Vög. pal. Fauna, 2, Heft 2, 1912, p. 936-938.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929,  
p. 418-421.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 358-365.

Todd, Ann. Carnegie Mus., 30, 1946, p. 313-317.

Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., 17, 1930,  
p. 313-315.

***Picumnus cinnamomeus cinnamomeus* Wagler**

*Picumnus cinnamomeus* Wagler, Isis von Oken, 22, 1829, col.  
646. (Cartagena.)

Arid tropical zone of northern Colombia extending into the  
coastal region of northwestern Venezuela.

***Picumnus cinnamomeus perijanus* Zimmer and Phelps**

*Picumnus cinnamomeus perijanus* Zimmer and Phelps, Am.  
Mus. Novit., no. 1270, 1944 p. 5. (Las Múcuras, 60 meters,  
Río Palmar, Perijá, Zulía, Venezuela.)

Lowlands of the middle western and eastern shores of Lake  
Maracaibo, Venezuela.

***Picumnus cinnamomeus venezuelensis* Cory**

*Picumnus venezuelensis* Cory, Field Mus. Nat. Hist. Publ., Orn.  
Ser., 1, 1913, p. 288. (Encontrados, Zulía, Venezuela.)

Humid forests at the southern end of Lake Maracaibo, Venezuela.

***Picumnus rufiventris rufiventris* (Bonaparte)**

*Asthenurus rufiventris* Bonaparte, Proc. Zool. Soc. London, pt. 5, 1837 (1838), p. 120. ("That portion of Brazil bordering on Perú.")

Eastern Ecuador, northeastern Perú, and western Brazil on the Rio Purús.

***Picumnus rufiventris grandis* Carriker**

*Picumnus grandis* Carriker, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 367. (Puerto Yessup, Dept. Junín, Perú.)

Central Perú in depts. of Huánuco and Junín, and on the upper Río Ucayali; northern Bolivia in Dept. of Cochabamba.

**?*Picumnus fuscus* Pelzeln**

*Picumnus fuscus* "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 242 *nomen nudum*, p. 335 orig. descr. (Rio Guaporé, Mato Grasso, Brazil.)

Known only from the unique type, perhaps only the young of some other species of *Picumnus*.

***Picumnus castelnau* Malherbe**

*Picumnus castelnau* Malherbe, Monogr. Pucidées, 2, 1862, p. 281; 4, pl. 117, f. 1, 2. (Sarayacu, Ecuador.)

Eastern Ecuador on the Río Napo and northeastern Perú on the Río Ucayali.

***Picumnus leucogaster* Pelzeln**

*Picumnus leucogaster* "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 *nomen nudum*, p. 335 orig. descr. (Forte do Rio Branco, Rio Cauamé.)

Middle Orinoco River in Venezuela and the Rio Branco region in northern Brazil.

***Picumnus limae* Snethlage**

*Picumnus limae* E. Snethlage, Journ. f. Orn., 72, 1924, p. 448. (Serra do Castello, Ceará, Brazil.)

Known only from the Serra do Castello in southern Ceará.

***Picumnus olivaceus dimotus* Bangs**

*Picumnus dimotus* Bangs, Bull. Mus. Comp. Zoöl., 39, 1903, p. 146. (Ceiba, Honduras.)

Caribbean slope of Honduras and Nicaragua.

***Picumnus olivaceus flavotinctus* Ridgway**

*Picumnus flavotinctus* Ridgway, Proc. U. S. Nat. Mus., 11, 1889, p. 543. (Pozo Azul de Pirris, southwestern Costa Rica.)

*Picumnus olivaceus panamensis* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 34. (Lion Hill Station, Panamá Railway, Panamá.)

Pacific slope of Costa Rica and western Panamá to the Canal Zone.

***Picumnus olivaceus olivaceus* Lafresnaye**

*Picumnus olivaceus* Lafresnaye, Rev. Zool., 1845, p. 7. (Bogotá, Colombia.)

Eastern Panamá, and northern Colombia in the lower Cauca and Magdalena valleys.

***Picumnus olivaceus harterti* Hellmayr**

*Picumnus olivaceus harterti* Hellmayr, Bull. Brit. Orn. Cl., 23, 1909, p. 67. (Paramba, northwestern Ecuador.)

Southwestern Colombia and western Ecuador.

***Picumnus olivaceus tachirensis* Phelps and Gilliard**

*Picumnus olivaceus tachirensis* Phelps and Gilliard, Am. Mus. Novit., no. 1153, 1941, p. 1. (Delicias, Páramo de Tamá region, Táchira, Venezuela.)

Region south of Medellín, Colombia, and western part of the State of Táchira, Venezuela.

***Picumnus granadensis antioquiensis* Chapman**

*Picumnus granadensis antioquiensis* Chapman, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 640. (Peque, 5000 feet, Western Andes, Antioquia, Colombia.)

Northern end of the Andes in Dept. of Antioquia, Colombia.

***Picumnus granadensis granadensis* Lafresnaye**

*Picumnus granadensis* Lafresnaye, Rev. Zool., 1847, p. 78. (Cali, Colombia.)

*Picumnus canus* Bangs, Proc. Biol. Soc. Washington, 23, 1910, p. 72. (Naranjito, Río Dagua, western Colombia.)

Tropical zone of Colombia north of Barbacoas, the Cauca valley, and ranging into the subtropical zone of the Western Andes and the west slope of the Central Andes.

***Picumnus nebulosus* Sundevall**

*Picumnus nebulosus* Sundevall, Consp. Av. Picinarum, 1866, p. 103. (South America; restricted to southern Brazil by Gyldestolpe, Ark. Zool., 19A, 1926, no. 1, p. 77.)

*Picumnus jheringi* Berlepsch, Ibis, 1884, p. 441. (Taquara do Mundo Novo, Rio Grande do Sul, Brazil.)<sup>1</sup>

Southern Brazil in states of Paraná and Rio Grande do Sul.

***Picumnus exilis salvini* Hargitt**

*Picumnus salvini* Hargitt, Bull. Brit. Orn. Cl., 3, 1893, p. iii. (Locality unknown.)

Range not known.<sup>2</sup>

***Picumnus exilis clarus* Zimmer and Phelps**

*Picumnus buffoni clarus* Zimmer and Phelps, Am. Mus. Novit., no. 1312, 1946, p. 6. (La Paragua, 280 meters, lower Paragua River, Bolívar, Venezuela.)

Venezuela in the eastern part of the State of Bolívar.

***Picumnus exilis undulatus* Hargitt**

*Picumnus undulatus* Hargitt, Ibis, 1889, p. 354. (Mt. Roraima, 5000 feet, and Camacusa, British Guiana.)

Mountains of southern and eastern Venezuela, Merumé Mts. in British Guiana, and the upper Rio Branco region in Brazil.

***Picumnus exilis buffoni* Lafresnaye**

*Picumnus Buffoni* Lafresnaye, Rev. Zool., 1845, p. 6. (Cayenne.)

*Picumnus penardi* "Scl." F. and A. Penard, De Vogels van Guyana, 1 [1908], p. 559. (Surinam.)

*Picumnus buffoni amazonicus* E. Snethlage, Orn. Monatsb., 22, 1914, p. 39. (Santo Antonio do Cachoeira, Rio Jary, Pará, Brazil.) Not *Picumnus amazonicus* E. Snethlage, 1906.

*Picumnus buffoni meridionalis* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925, p. 296. New name for *P. b. amazonicus* Snethlage, 1914, preoccupied.

Surinam, Cayenne and northeastern Brazil north of the Amazon.

***Picumnus exilis alegriae* Hellmayr**

*Picumnus exilis alegriae* Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 419. (Tury-assú, Alto de Alegria, Maranhão, Brazil.)

Forested coast region of northwestern Maranhão.

***Picumnus exilis exilis* (Lichtenstein)**

*Picumnus minutus* of authors, not *Motacilla minuta* Linné.

<sup>1</sup> cf. Gyldenstolpe, K. Sv. Vet.-Akad. Handl., 23, 1945 no. 1, p. 137.

<sup>2</sup> I am unable to discover the basis on which Domaniewski gives Bogotá as the type locality and the range as "Columbia".

*Picus exilis* H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 11. (Province of São Paulo; error = Baía.)  
Southern Baía.

***Picumnus borbae juruanus* Gyldenstolpe**

*Picumnus borbae juruanus* Gyldenstolpe, Ark. Zool., 33B, 1941, no. 12, p. 8. (João Pessoa, left bank of the Rio Juruá, Brazil.)

Ucayali region of eastern Perú and western Brazil on the upper Juruá and the Eirú.

***Picumnus borbae borbae* Pelzeln**

*Picumnus Borbae* Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 (*nomen nudum*), p. 334 (orig. descr.). (Borba.)

*Picumnus olivaceus* Natterer ms. Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241, 334. In synonymy of *P. borbae*. Not *P. olivaceus* Lafresnaye, 1845.

Brazil south of the Amazon from the right bank of the lower Madeira to the left bank of the Tapajóz.

***Picumnus aurifrons lafresnayi* Malherbe**

*Picumnus Lafresnayi* "J. Verreaux" Malherbe, Monogr. Pic-idées, 2, 1862, p. 282; 4, pl. 118, f. 4, 5. (Ecuador.)

Colombia (Caquetá), Ecuador (Zamora, Río Suno, Oyacachi), Perú (Bellavista, Río Curaray, Moyabamba).

***Picumnus aurifrons taczanowskii* Domaniewski**

*Picumnus punctifrons taczanowskii* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925, p. 297. (Huambo, north-eastern Perú.)

Known only from the type locality.

***Picumnus aurifrons punctifrons* Taczanowski**

*Picumnus punctifrons* Taczanowski, Orn. Pérou, 3, 1886, p. 65. (Monterico and Huambo, Perú; restricted to Monterico by Domaniewski, 1925, p. 296.)

Central Perú (Monterico, La Merced, Huachipa, Chanchamayo).

***Picumnus aurifrons flavifrons* Hargitt**

*Picumnus flavifrons* Hargitt, Ibis, 1889, p. 229. (Sarayacu, Perú.)

Eastern Perú on the Ucayali and western Brazil on the Juruá (Nova Olinda) and on the Solimões (Tefé).

***Picumnus aurifrons purusianus* Todd**

*Picumnus aurifrons purusianus* Todd, Ann. Carnegie Mus., 30, 1946, p. 317. (Hyutanahan, Rio Purús, Brazil.)

Western Brazil on the upper Rio Purús.



**Picumnus aurifrons pusillus** Pinto

*Picumnus pusillus* Pinto, Rev. Mus. Paulista, 20, 1936, p. 234.  
(Codajáz, left bank of the Rio Solimões, Brazil.)

Western Brazil on the left bank of the Solimões (Codajáz, Manacapurú).

**Picumnus aurifrons wallacii** Hargitt

*Picumnus wallacii* Hargitt, Ibis, 1889, p. 230. ("Amazons".)

Brazil south of the Amazon between the Purús and the Madeira.

**Picumnus aurifrons aurifrons** Pelzeln

*Picumnus aurifrons* "Natterer" Pelzeln, Orn. Bras., Abth. 3, 1870, p. 241 (*nomen nudum*), p. 334 (orig. descr.). (Engenho do Gama, Caiçara, Salto do Girao, Borba.)

Brazil south of the Amazon from the Guaporé and the Madeira to the left bank of the Tapajóz.

**Picumnus aurifrons transfasciatus** Hellmayr and Gyldenstolpe

*Picumnus aurifrons transfasciatus* Hellmayr and Gyldenstolpe, Ark. Zool., 29B, 1937, no. 6, p. 1. (Marai, east bank of the lower Tapajóz, Brazil.)

Brazil south of the Amazon from the right bank of the Tapajóz to the Tocantins.

**Picumnus temminckii** Lafresnaye

*Picumnus Temminckii* Lafresnaye, Rev. Zool., 1845, p. 6.  
(Paraguay.)

Southeastern Brazil in states of São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

**Picumnus cirratus confusus** Kinnear

*Picumnus cirratus confusus* Kinnear, Bull. Brit. Orn. Cl., 47, 1927, p. 112. (Takatu River, British Guiana.)

British Guiana (Takatu River, Takatu Mts.), Cayenne (Mana).

**Picumnus cirratus macconnelli** Sharpe

*Picumnus macconnelli* Sharpe, Bull. Brit. Orn. Cl., 12, 1901, p. 4.  
(British Guiana; error, the type probably came from northern Brazil; Pará substituted as type locality by Todd, 1946, p. 315.)

*Picumnus amazonicus* E. Snethlage, Orn. Monatsb., 14, 1906, p. 60. (Marajó Island.)

Northern Brazil in State of Pará (Obidos, Monte Alegre, Santarem, Rio Tapajóz, Rio Tocantins; Marajó Island).

**Picumnus cirratus cirratus** Temminck

*Picumnus cirratus* Temminck, Pl. col., livr. 62, 1825, pl. 371, f. 1.  
(Brazil and Paraguay.)

Southeastern Brazil in states of Baía (?), Espirito Santo, Minas Gerais, Rio de Janeiro, São Paulo and Paraná.

**Picumnus cirratus pilcomayensis** Hargitt

*Picumnus pilcomayensis* Hargitt, Ibis, 1891, p. 606. (Río Pilcomayo, i.e. lower Pilcomayo in about long. 58° 40' W.)

Southwestern Mato Grosso (Urucum), the Paraguayan Chaco, the Argentine Chaco in Formosa and Chaco and southward to northern Entre Ríos (Santa Elena).

**Picumnus cirratus tucumanus** Hartert

*Picumnus cirratus tucumanus* Hartert, Nov. Zool., 16, 1909, p. 229. (Río Colorado, Tucumán.)

Northern Argentina in provinces of Tucumán and La Rioja.

**Picumnus cirratus thamnophiloides** Bond and de Schauensee

*Picumnus cirratus thamnophiloides* Bond and de Schauensee, Notulae Naturae, no. 105, 1942, p. 1. (Bermejo, 1350 feet, Tarija, Bolivia.)

Southern Bolivia in Dept. of Tarija and northwestern Argentina in provinces of Jujuy and Salta.

**Picumnus cirratus d'orbygnianus** Lafresnaye

*Picumnus d'Orbygnianus* Lafresnaye, Rev. Zool., 1845, p. 7.  
(No locality = Bolivia.)

Northern and central Bolivia in depts. of LaPaz, Cochabamba, Santa Cruz and Chuquisaca.

**Picumnus cirratus jelskii** Taczanowski

*Picumnus jelskii* Taczanowski, Proc. Zool. Soc. London, 1882, p. 41, pl. 2, f. 3. (Paltaypampa, Chanchamayo, Perú.)

*Picumnus irenae* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925, p. 292. (Garita del Sol, Vitoc Valley, central Perú.) = juv. ♂

*Picumnus jelskii vitocensis* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925, p. 293. (Garita del Sol, Vitoc Valley, central Perú.)

Central Perú.

**Picumnus sclateri parvistriatus** Chapman

*Picumnus parvistriatus* Chapman, Am. Mus. Novit., no. 18, 1921, p. 6. (Daule, Prov. Guayas, Ecuador.)

Western Ecuador in provinces of Manavi and Guayas.

**Picumnus sclateri sclateri** Taczanowski

*Picumnus sclateri* Taczanowski, Proc. Zool. Soc. London, 1877, p. 327. (Lechugal, Perú.)

Southwestern Ecuador in provinces of Loja and El Oro; northwestern Perú in Department of Tumbes.

**Picumnus steindachneri** Taczanowski

*Picumnus steindachneri* Taczanowski, Proc. Zool. Soc. London, 1882, p. 40, pl. 2, f. 1 ♂, f. 2, ♀. (Chirimoto, Perú.)

Northeastern Perú in the Huayabamba Valley.

**Picumnus squamulatus squamulatus** Lafresnaye

*Picumnus squamulatus* Lafresnaye, Rev. et Mag. Zool. (2), 6, 1854, p. 208. (Colombia.)

Colombia, east of the Eastern Andes, including the Santa Marta region.

**Picumnus squamulatus röhli** Zimmer and Phelps

*Picumnus squamulatus röhli* Zimmer and Phelps, Am. Mus. Novit., no. 1270, 1944, p. 6. (Cotiza, 1000 meters, Caracas, Venezuela.)

Venezuela from Perijá, the Andes of Mérida and the upper Apure Valley, eastward through the Caracas region to Caripe in the mountains of northeastern Venezuela.

**Picumnus squamulatus obsoletus** Allen

*Picumnus obsoletus* Allen, Bull. Am. Mus. Nat. Hist., 4, 1892, p. 55. (El Pilar, Venezuela.)

Northeastern Venezuela (El Pilar, Guaraúnos, Yaguaraparo).

**Picumnus minutissimus** (Pallas)

*Picus minutissimus* Pallas, Neue Nordische Beyträge, 3, 1782, p. 5, pl. 1, f. 2. (Surinam and Cayenne; restricted to Cayenne by Berlepsch, Nov. Zool., 15, 1908, p. 274.)

*Picumnus lepidotus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 14. (No locality.)

*Picumnus spilogaster* Sundevall, Consp. Av. Picinarum, 1866, p. 100. (Guiana.)

Surinam and Cayenne.

**Picumnus pallidus** Snethlage

*Picumnus pallidus* E. Snethlage, Journ. f. Orn., 72, 1924, p. 449. (Flor do Prado, near Quatipurú, Pará.)

Known only from the type locality in eastern Pará.

**Picumnus albosquamatus albosquamatus d'Orbigny**

*Picumnus albosquamatus* d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 50, 1840, pl. 64, f. 2; livr. 89, 1847, p. 380. (Río Tama-nipaya, Yungas, Bolivia.)

Bolivia in depts. of La Paz, Beni and Santa Cruz.

**Picumnus albosquamatus corumbanus Lima**

*Picumnus lepidotus corumbanus* Lima, Rev. Mus. Paulista, 12, 1920, pt. 2, p. 94, pl. 2, f. 2. (Corumbá, Mato Grosso.)

*Picumnus arileucus* Oberholser, Proc. Colorado Mus. Nat. Hist., 10, 1931, p. 25. (Descalvados, Mato Grosso.)

Southwestern Mato Grosso from Descalvados to Urucúm.

**Picumnus guttifer Sundevall**

*Picumnus guttifer* Sundevall, Consp. Av. Picinarum, 1866, p. 101. (Goiáz, Brazil.)

*Picumnus sagittatus* var. *Sharpei* H. Ihering, Rev. Mus. Paulista, 5, 1902, p. 279. (Rincão, and Baurú, São Paulo.)

*Picumnus caipira* H. Ihering, Rev. Mus. Paulista, 5, 1902, p. 280. (Victoria, São Paulo.)

Brazil in states Maranhão, Goiás, Minas Gerais, Mato Grosso and São Paulo.

**Picumnus varzeae Snethlage**

*Picumnus varzeae* E. Snethlage, Orn. Monatsb. 20, 1912, p. 154. (Fazenda Paraíso, near Faro, Pará.)

Islands in the Amazon near Obidos and on the lower Rio Jamundá, Brazil.

**Picumnus pygmaeus (Lichtenstein)**

*Picus pygmaeus* H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 12. (Brazil = Baía.)

Northeastern Brazil in states of Maranhão, Piauí and Baía.

**Picumnus asterias Sundevall**

*Picumnus asterias* Sundevall, Consp. Av. Picinarum, 1866, p. 97. (Brazil.)

Known only from the unique type.

**Picumnus pumilus Cabanis and Heine**

*Picumnus pumilus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 16. (No locality.)

*Picumnus stellae* Berlespsch and Hartert,<sup>1</sup> Nov. Zool., 9, 1902, p. 96. (Maipures,<sup>2</sup> upper Orinoco River, Colombia.)

Known only from the type of *pumilus* without locality, and the original series of eleven specimens of *stellae*, all from Maipures.

***Picumnus innominatus simlaensis* (Ticehurst)**

*Vivia innominata simlaensis* Ticehurst, Bull. Brit. Orn. Cl., 54, 1933, p. 20. (Murree.)

Northwestern Himalayas from Murree to Dehra Dun.

***Picumnus innominatus innominatus* Burton**

*Picumnus innominatus* Burton, Proc. Zool. Soc. London, pt. 3, 1835 (1836), p. 154. (Himalayas = Sikkim.)

Nepal and Sikkim to eastern Assam.

***Picumnus innominatus avunculorum* Hartert**

*Picumnus innominatus avunculorum* Hartert, Vög. pal. Fauna, 2, 1912, p. 937. (Kotagiri, Nilgiri Hills, India.)

Southern India from North Kanara to Travancore.

***Picumnus innominatus malayorum* Hartert**

*Picumnus innominatus malayorum* Hartert, Vög. pal. Fauna, 2, 1912, p. 937. (Gunong Ijau, Perak, Malay Peninsula.)

Vizagapatam region of eastern India, eastern Burma, South Shan States, Tonkin, Annam, Laos, Siam, Malay States, Sumatra, Borneo.

***Picumnus innominatus chinensis* (Hargitt)**

*Vivia chinensis* Hargitt, Ibis, 1881, p. 228, pl. 7. ("May-chee, China," = Meiki River, Chekiang?)

China in provinces of Kansu, Szechwan, Yunnan, Hupeh, Kiangsu Chekiang, Fukien, Kiangsi, Kwangsi and Kwangtung; northeastern Tonkin (Langson, 1500 meters).

GENUS **NESOCTITES** HARGITT

*Nesoctites* Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 8 (in key), p. 552. Type, by original designation and monotypy, *Picumnus micromegas* Sundevall.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 307-309.

<sup>1</sup> One of the type series of *P. stellae*, loaned by the American Museum bears the following notation in Hellmayr's handwriting " = *pumilus* Cab. and Heine type examined by C. E. H."

<sup>2</sup> For a statement on the location of Maipures, see Dugand and Phelps, Caldasia, 4, 1946, p. 243-276.



Wetmore and Swales, Bull. U. S. Nat. Mus., no. 155, 1931, p. 296-299.

**Nesocittes micromegas micromegas** (Sundevall)

*Picumnus micromegas* Sundevall, Consp. Av. Picinarum, 1866, p. 95. (Brazil; error = Hispaniola.)

Island of Hispanola.

**Nesocittes micromegas abbotti** Wetmore

*Nesocittes abbotti* Wetmore, Proc. Biol. Soc. Washington, 41, 1928, p. 167. (Gonave Island.)

Gonave Island.

GENUS **VERREAUXIA** HARTLAUB

*Verreauxia* Hartlaub, Arch. Naturg., 22, 1856, Bd. 2, p. 28.

Type, by original designation, *Sasia africana* J. [and E.] Verreaux.

*Blax* Reichenow, Orn. Monatsb., 2, 1894, p. 126. Type, by original designation and monotypy, *Blax gymnophthalmus* Reichenow. Not *Blax* Thomson, 1860, Insecta.

*Blacops* Richmond, Auk, 16, 1899, p. 186. New name for *Blax* Reichenow, preoccupied.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 460-462.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 559-562.

**Verreauxia africana** (Verreaux and Verreaux)

*Sasia africana* J. and E. Verreaux, Rev. et. Mag. Zool. (2), 7, 1855, p. 217. (Gaboon.)

*Blax gymnophthalmus* Reichenow, Orn. Monatsb., 2, 1894, p. 126. (Jaunde, Cameroons.)

Nigeria (Lokoja, sight record only), southern Cameroons, Gaboon and the Congo forest, eastward to the upper Ituri and south to the Kasai district.

GENUS **SASIA** HODGSON

*Sasia* Hodgson, Journ. As. Soc. Bengal, 5, 1836, p. 778. Type, by original designation, *Sasia ochracea* Hodgson.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 95-98. Deignan, Bull. U. S. Nat. Mus., no. 186, 1945, p. 253-254.

Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 108-109.

**Sasia ochracea ochracea** Hodgson

*Sasia ochracea* Hodgson, Journ. As. Soc. Bengal, 5, 1836, p. 778. (Nepal.)

The Himalayas from Garhwal through Nepal and Sikkim to Assam north of the Brahmaputra.

**Sasia ochracea kinneari** Stresemann

*Sasia ochracea kinneari* Stresemann, Journ. f. Orn., 77, 1929, p. 335. (Mts. of northern Kwangsi, 3000–4000 feet.)  
Southeastern Yunnan, Kwangsi and Tonkin.

**Sasia ochracea querulivox** Stuart Baker

*Sasia ochracea querulivox* Stuart Baker, Bull. Brit. Orn. Cl., 47, 1926, p. 43. (Tipperah Hills, eastern Bengal.)  
Assam south of the Brahmaputra, eastern Bengal, Manipur, Hill Tipperah, and northwestern Burma.

**Sasia ochracea reichenowi** Hesse

*Sasia ochracea reichenowi* Hesse, Orn. Monatsb., 19, 1911, p. 181. (Burma; type from Thayetchaung, Tenasserim.)  
Burma (except areas inhabited by *S. o. querulivox*), Southern Shan States, northern Tenasserim, northern and eastern Siam, Laos, Annam and Cochinchina.

**Sasia ochracea hasbroucki** Deignan

*Sasia ochracea hasbroucki* Deignan, Journ. Washington Acad. Sci., 37, 1947, p. 25. (Maliwun, Mergui Dist., Tenasserim.)  
Southern Tenasserim from about lat. 12° 30' N., south to the Isthmus of Kra.

**Sasia abnormis abnormis** (Temminck)

*Picumnus abnormis* Temminck, Pl. col., livr. 62, 1825, pl. 371, f. 3. (Java.)  
*Sasia everetti* Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 555 (in key), p. 559, pl. 15. (Lumbidan, Borneo.)  
Southern Tenasserim and southwestern Siam southward over the Malay Peninsula; Sumatra, Billiton, Java (absent from the eastern part), Borneo.

**Sasia abnormis magnirostris** Hartert

*Sasia abnormis magnirostris* Hartert, Nov. Zool., 8, 1901, p. 51. (Nias Island.)  
Nias Island.

SUBFAMILY PICINAE

GENUS **GEOCOLAPTES** SWAINSON

*Geocolaptes* Burchell MS. Swainson, in Swainson and Richard son, Fauna Bor.-Am., 2, 1831 (1832), p. 315, note. Type, by

original designation and monotypy, *Picus terrestris* Burchell = *Picus olivaceus* Gmelin.

Sclater, in Stark and Slater, Bds. S. Afr., 3, 1903, p. 126-128.

**Geocolaptes olivaceus** (Gmelin)

*Picus olivaceus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 431. (Cape of Good Hope.)

South Africa north to the van Rhynsdorp and Carnarvon districts, Pretoria and Natal; Drakensberg.

cf. Roberts, Bds. S. Afr., 1940, p. 182, pl. 29, f. 445.

GENUS **COLAPTES** VIGORS

*Colaptes* Vigors, Trans. Linn. Soc. London, 14, pt. 3, 1826, p. 457, note. Type, by original designation, *Cuculus auratus* Linné.

*Soroplex* Gloger, Hand-und Hilfsb. Naturg., 1842 (1841), p. 198. Type, by monotypy, *Picus campestris* Vieillot.

*Pituipicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 126. (Consp. Vol. Zygodact., p. 11). Type, by monotypy, *Picus chilensis* [Garnot and] Lesson = *Picus pitius* Molina.

cf. Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 410-416.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 405-406.

Pergolani, Hornero, 8, 1942, p. 152-170, pl. 2.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 12-39.

Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., 17, 1930, p. 307-308.

**Colaptes cafer cafer** (Gmelin)

*Picus cafer* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 431. (Cape of Good Hope, error = Bay of Good Hope, Nootka Sound, British Columbia<sup>1</sup>).

*Colaptes mexicanus saturator* Ridgway, Proc. Biol. Soc. Washington, 2, 1884, p. 90. (Neah Bay and Simiahmoo, Washington.)

Northwest coast of North America from southern Alaska (Sitka) to Humboldt County, California.

**Colaptes cafer collaris** Vigors

*Colaptes collaris* Vigors, Zool. Journ., 4, 1829, p. 354. (Western shores of North America = Monterey, California.)

<sup>1</sup> cf. Palmer, Auk, 33, 1916, p. 322.

*Colaptes cafer canescens* Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 314, 1935, p. 1. (Bear Lake Outlet, 5900 feet, 4 miles southwest of Montpelier, Bear Lake Co., Idaho.)

*Colaptes cafer chihuahuae* Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 314, 1935, p. 2. (Thirty miles west of Miñaca, Chihuahua.)

Southeastern British Columbia, southern Alberta and southwestern Saskatchewan, south to southern California, Sonora, Chihuahua, Durango and Zacatecas; migratory in the northern part of its range. Along the western border of the Great Plains hybridizes extensively with *C. auratus*.

? **Colaptes cafer sedentarius** van Rossem

*Colaptes cafer sedentarius* van Rossem, Condor, 46, 1944, p. 245. (Prisoners' Harbor, Santa Cruz Island, California.)

Resident on Santa Cruz Island, California. Doubtfully distinct from *C. c. collaris*.

† **Colaptes cafer rufipileus** Ridgway

*Colaptes mexicanus rufipileus* Ridgway, Bull. U. S. Geol. Geogr. Surv. Terr., 2, no. 2, 1876, p. 191. (Guadalupe Island, Baja California.)

Formerly resident on Guadalupe Island off the Pacific coast of Baja California; now extinct.

**Colaptes cafer martirensis** Grinnell

*Colaptes cafer martirensis* Grinnell, Auk, 44, 1927, p. 67. (La Grulla, 7200 feet, Sierra San Pedro Mártir, Baja California.)

Baja California on the western slopes of the Sierra San Pedro Mártir and Sierra Juárez.

**Colaptes cafer nanus** Griscom

*Colaptes cafer nanus* Griscom, Bull. Mus. Comp. Zool., 75, 1934, p. 381. (Ipiná, San Luís Potosí, México.)

Northeastern México in states of Coahuila, Nuevo León, Tamaulipas and San Luís Potosí, extending into southwestern Texas (Chisos Mts.).

**Colaptes cafer mexicanus** Swainson

*Colaptes Mexicanus* Swainson, Philos. Mag., n.s., 1, 1827, p. 440. (Real del Monte, Hidalgo, México.)

Central México in states of Nayarit, Jalisco, Hidalgo, Veracruz, Puebla, México, Morelos, Michoacán, Guerrero and Oaxaca.

**Colaptes cafer mexicanoïdes** Lafresnaye<sup>1</sup>

<sup>1</sup> Replaces *Colaptes sub-mexicanus* Sundevall of Sharpe's Hand-list.

*Colaptes mexicanoïdes* Lafresnaye, Rev. Zool., 1844, p. 42. (México.)

Highlands of Chiapas and Guatemala.

**Colaptes cafer pinicolus** Dickey and van Rossem

*Colaptes mexicanoides pinicolus* Dickey and van Rossem, Proc. Biol. Soc. Washington, 41, 1928, p. 131. (Los Esesmiles, 8000 feet, Dept. Chalatenango, El Salvador.)

Highlands of El Salvador, Honduras and northern Nicaragua.

**Colaptes auratus borealis** Ridgway

*Colaptes auratus borealis* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 31. (Nulato, lower Yukon River, Alaska.)

From limit of trees in Alaska, Mackenzie, northern Manitoba and Labrador (lat. 55°N.) southward (east of the Rockies) to eastern Montana, northern Ontario and Anticosti Island; south in winter to the Mississippi Valley, Arizona and California.

**Colaptes auratus luteus** Bangs

*Colaptes auratus luteus* Bangs, Auk, 15, 1898, p. 177. (Watertown, Massachusetts.)

Breeds from eastern Montana, North Dakota, Minnesota, southern Ontario, southern Quebec and Newfoundland, southward east of the Rocky Mountains, to northern Texas, northern Arkansas, southeastern Missouri, Kentucky and south-central and western Virginia, and in the mountains of eastern Tennessee and western North Carolina. Winters in reduced numbers in the northern parts of its range and to southern Texas, the Gulf Coast and the South Atlantic States.

**Colaptes auratus auratus** (Linné)

*Cuculus auratus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. (Carolina, i.e., South Carolina.)

Resident from eastern Texas, southern Arkansas, southeastern Missouri, Tennessee, North Carolina and southeastern Virginia, to the Gulf Coast and southern Florida. Extends up the Mississippi Valley to southern Illinois and southern Indiana.

**Colaptes auratus chrysocaulosus** Gundlach

*Colaptes chrysocaulosus* Gundlach, Ann. Lyc. Nat. Hist. New York, 6, 1858, p. 273. (Cuba.)

Island of Cuba.

**Colaptes auratus gundlachi** Cory

*Colaptes gundlachi* Cory, Auk, 3, 1886, p. 498, 502. (Island of Grand Cayman, West Indies.)

Island of Grand Cayman.



**Colaptes chrysoïdes mearnsi** Ridgway

*Colaptes chrysoides mearnsi* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Quitovaquito, Arizona.)

Southeastern California and southwestern Arizona to northwestern Baja California and northern Sonora; Tiburón Island.

**Colaptes chrysoïdes tenebrosus** van Rossem

*Colaptes chrysoides tenebrosus* van Rossem, Trans. San Diego Soc. Nat. Hist., 6, 1930, p. 171. (Obregón, Sonora, México.)

Central and southern Sonora and northern Sinaloa.

**Colaptes chrysoïdes brunnescens** Anthony

*Colaptes chrysoides brunnescens* Anthony, Auk, 12, 1895, p. 347. (San Fernando, Baja California.)

Central Baja California between lat. 28° and 30° N.

**Colaptes chrysoïdes chrysoïdes** (Malherbe)

*Geopicus (Colaptes) chrysoïdes* Malherbe, Rev. et Mag. Zool. (2), 4, 1852, p. 553. (America; Cape San Lucas, Baja California fixed as type locality by Anthony, Auk, 12, 1895, p. 347.)

Baja California south of lat. 28° N.

**Colaptes rupicola cinereicapillus** Reichenbach

*Colaptes cinereicapillus* Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 416, pl. DCLXXX, figs. 4489-90. (Guayabamba, Perú.)

Highlands of northern Perú.

**Colaptes rupicola puna** Cabanis

*Colaptes puna* Cabanis, Journ. f. Orn., 31, 1883, p. 98. (Highlands of western Perú = Jauli Valley, Perú, *ex* Lichtenstein, Nomencl. Av., 1854, p. 77, where a *nomen nudum*.)

Highlands of central and southern Perú.

**Colaptes rupicola rupicola** d'Orbigny

*Colaptes rupicola* d'Orbigny. Voy. Am. Mérid., Ois., livr. 51, 1840, pl. 62, f. 1 (No locality.); *idem*, livr. 89, 1847, p. 377. (La Paz, Chuquisaca, Cochabamba and Potosí, Bolivia; type from Sicasica, *fide* Ménégaux, Bull. Soc. Philom. Paris (10), 1, 1909, p. 207-208.)

Highlands of Bolivia, northwestern Argentina in provinces of Jujuy, Catamarca, Salta and Tucumán, and northern Chile in Province of Tarapacá.

**Colaptes pitius pitius** (Molina)

*Picus Pitius* Molina, Sagg. Stor. Nat. Chili, 1782, p. 343.  
(Chile.)

Central and southern Chile from Aconcagua to the Guaitecas Islands.

**Colaptes pitius cachinnans** Wetmore and Peters

*Colaptes pitius cachinnans* Wetmore and Peters, Proc. Biol. Soc. Washington, 35, 1922, p. 43. (Bariloche, Río Negro, Argentina.)

Wooded eastern slopes of the Andes in Argentina from Neuquén to Santa Cruz.

**Colaptes campestris chrysosternus** (Swainson)

*Picus chrysosternus* Swainson, Mem. Wernerian Nat. Hist. Soc., 3, 1821, p. 289 (Sertão of Bahia, Brazil.)

*Soroplex campestris cearæ* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 414, note b. (Quixada, Ceará.)

Northeastern Brazil in states of Maranhão, Ceará, Pernambuco and northern Baía; eastern Pará(?).

**Colaptes campestris campestris** (Vieillot)

*Picus campestris* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 101. (Paraguay.)

Eastern Bolivia; central and southeastern Brazil in states of Mato Grosso, Goiás, Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Minas Gerais.

**Colaptes campestris campestroïdes** (Malherbe)

*Geopicos (Colaptes) campestroïdes* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 541. (South America.)

*Geopicos agricola* Malherbe, Mém Acad. Nat. Metz, 30, 1848–1849 (1849), p. 359, *nomen nudum*.

*Geopicus agricola* Malherbe, Monogr. Pucidées, 2, 1862, p. 254; 4, pl. 108, figs. 4, 5. (Brazil.) First description.

Southern Brazil in State of Rio Grande do Sul; Paraguay; Uruguay; greater part of Argentina south to Río Negro and La Pampa; Bolivia(?).<sup>1</sup>

<sup>1</sup> Specimen without exact locality, recorded by Pergolani, *antea*, p. 167; Malherbe, *t.c.*, 1862, states that the specimen in the Stuttgart Museum is from Bolivia; this form not listed from Bolivia by Bond and deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, 95, 1943, p. 216.

GENUS **NESOCLEUS** SCLATER AND SALVIN

*Nesocleus* Sclater and Salvin, Nomencl. Av. Neotrop., 1873, p. 101, 155. Type, by original designation and monotypy, *Colaptes fernandinae* Vigors.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 39-41.

**Nesocleus fernandinae** (Vigors)

*Colaptes Fernandinae* Vigors, Zool. Journ., 3, 1827, p. 445.  
(Near Habana, Cuba.)

Island of Cuba.

GENUS **CHRYSOPTILUS** SWAINSON

*Chrysoptilus* Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 300. Diagnosis only; species added, Swainson, Classif. Bds., 2, 1837, p. 308. Type, by subsequent designation, *C. cayanensis* (Gm.) Swains., pl. enl. 613 = *Picus punctigula* Boddaert. (G. R. Gray, List Gen. Bds., 1840. p. 54.)

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 348-350.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 440-447.

Laubmann, Verh. Orn. Ges. Bayern, 20, 1934, p. 297-308.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 342-344.

Steullet and Deautier, Obra del Cincuentenario del Mus. de La Plata, 1, entr. 4, 1946, p. 955-973.

Todd, Ann. Carnegie Mus., 30, 1946, p. 301-304.

Wetmore, Bull. U. S. Nat. Mus., no. 133, 1926, p. 219-223.

**Chrysoptilus melanochloros mariae** Hargitt

*Chrysoptilus mariae* Hargitt, Ibis, 1889, p. 59. (Chamicuros, Perú, error = Marajó Island.)

Known only from Marajó Island at the mouth of the Amazon, and from Mangunça Island off the northern shore of Maranhão.

**Chrysoptilus melanochloros flavilumbis** (Sundevall)

*Picus flavilumbis* Sundevall, Consp. Av. Picinarum, 1866, p. 74. (Baía.)

*Chrysoptilus melanochlorus juæ* Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 441 (in key), p. 444, note a. (Jua, near Iguatú, Ceará, Brazil.)

Eastern Brazil in states of Maranhão, Piauí, Ceará, Pernambuco and northeastern Baía.

**Chrysoptilus melanochloros nattereri** (Malherbe)

*Picus Nattereri* Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 66. (Brazil = Cuyabá, Mato Grosso.)

Eastern Bolivia; Brazil in states of Baía (Ilha Madre de Deus, Corupeba), Goiás, western Minas Gerais, western São Paulo, Mato Grosso.

**Chrysoptilus melanochloros melanochloros** (Gmelin)

*Picus melanochloros* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 427. (Cayenne; error, Rio de Janeiro substituted by Hellmayr, Verh. Orn. Ges. Bayern, 12, 1915, p. 154.)

Brazil in states of Minas Gerais (eastern), Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul and Mato Grosso (southeastern).

**? Chrysoptilus melanochloros cristatus** (Vieillot)

*Picus cristatus* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Paraguay; restricted to Colonia Nueva Germania, northeastern Paraguay by Laubmann, *antea*, p. 304.)

Eastern Paraguay; Uruguay; northeastern Argentina in Misiones and northeastern Corrientes.

**Chrysoptilus melanochloros melanolaimus** (Malherbe)

*Chrysopicus Melanolaimus* Malherbe, Bull. Soc. Hist. Nat. Moselle, 8<sup>me</sup> cahier, 1857, p. 11. (Chile<sup>1</sup> and Bolivia.)

*Colaptes leucofrenatus* Leybold, Leopoldina, 8, 1873, p. 53. (Estancia la Aguirre [near San Carlos], Mendoza, Argentina.)

Bolivia in departments of Cochabamba, Potosí and Tarija, southward in western Argentina in provinces of Jujuy, western Salta, Tucumán, western Santiago del Estero, Catamarca, La Rioja, western Córdoba, Mendoza, San Luis, La Pampa and northern Neuquén.

**Chrysoptilus melanochloros nigroviridis** C. Grant

*Chrysoptilus nigroviridis* C. Grant, Ibis, 1911, p. 321. (Río Pilcomayo, Paraguay.)

Bolivian and Paraguayan Chaco east to the Río Paraguay and south into northern Argentina in eastern Salta, Formosa, Chaco, northeastern Santiago del Estero and northern Santa Fé.

**Chrysoptilus melanochloros perplexus** Cory

*Chrysoptilus melanolæmus perplexus* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, no. 2, pt. 2, 1919, p. 442, note b. (Conchitas, Buenos Aires.)

<sup>1</sup> This species does not occur in Chile; the type in the British Museum from Bolivia is the specimen figured in Malherbe's Monogr. Piciées, pl. 89, f.7.

Eastern Argentina in southern Santa Fé, southern Corrientes, Entre Ríos and Buenos Aires.

***Chrysoptilus melanochloros patagonicus* Laubmann**

*Chrysoptilus melanolaimus patagonicus* Laubmann, Verh. Orn. Ges. Bayern, 20, 1934, p. 302. (Río Lamay [= Limay], Patagonia.)

Western Argentina in southern Neuquén and western Río Negro.

***Chrysoptilus punctigula lutescens* Griscom**

*Chrysoptilus punctigula lutescens* Griscom, Bull. Mus. Comp. Zool., 69, 1929, p. 16. (El Real, Darién.)

Eastern Darién; doubtfully distinct from *C. p. ujhelyii*.

***Chrysoptilus punctigula ujhelyii* Madarász**

*Chrysoptilus ujhelyii* Madarász, Orn. Monatsb., 20, 1912, p. 97. (Aracataca, south of Santa Marta, Colombia.)

Arid Caribbean coastal region of northern Colombia.

***Chrysoptilus punctigula striatigularis* Chapman**

*Chrysoptilus punctigula striatigularis* Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 611. (Cali, 3500 feet, Cauca Valley, Colombia.)

Tropical zone of Colombia west of the Eastern Andes south to about lat. 4° N.

***Chrysoptilus punctigula punctipectus* Cabanis and Heine**

*Chrysoptilus punctipectus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 163, note. (Venezuela.)

Colombia east of the Eastern Andes and the larger part of Venezuela, except those areas occupied by other races.

**? *Chrysoptilus punctigula notatus* Cory**

*Chrysoptilus punctigula notata* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 442 (in key), 445 (in key), p. 446. ("Colombia".)

Known only from the unique type; perhaps only an aberrant specimen of *C. p. punctipectus*.

***Chrysoptilus punctigula zuliae* Cory**

*Chrysoptilus punctigula zuliae* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 305. (Encontrados, Zulia, Venezuela.)

Humid forest region southwest of Lake Maracaibo, Venezuela.



**Chrysoptilus punctigula speciosus** (Malherbe)

*Chloropicus speciosus* Malherbe, Monogr. Piciidées, 4, 1862, pl. 87, f. 6. (No locality = Nauta, Perú, *ex* Sclater MS.)

Southeastern Colombia, eastern Perú and the Amazon valley in Brazil eastward to the Rio Negro on the north and to the Purús and northeastern Bolivia on the south.

**Chrysoptilus punctigula punctigula** (Boddaert)

*Picus punctigula* Boddaert, Table Pl. enlum., 1783, p. 37. (Cayenne; based on Daubenton, pl. 613.)

Surinam and Cayenne <sup>1</sup>.

**Chrysoptilus punctigula rubidipectus** Todd

*Chrysoptilus punctigula rubidipectus* Todd, Ann. Carnegie Mus., 30, 1946, p. 303. (Islands near Obidos, Brazil.)

Brazil north of the Amazon from the region about Obidos north-eastward to the French Guiana frontier.

**Chrysoptilus punctigula guttatus** (Spix)

*Picus guttatus* Spix, Av. Bras., 1, 1824, p. 61, pl. 53, f. 1. (Forests of the Amazon, = Santarem, Brazil.)

*Chrysoptilus punctigula pallidior* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 431. (Lago Grande, Amazon River, Brazil.)

South bank of the lower Amazon valley in the vicinity of the mouth of the Tapajóz.

**Chrysoptilus atricollis atricollis** (Malherbe)

*Chrysopicos atricollis* Malherbe, Rev. et Mag. Zool. (2), 2, 1850, p. 156. (Perú.)

Western Perú (Río Pacasmayo, Lima, Menucucho, Hacienda Llagueda.)

**Chrysoptilus atricollis peruvianus** Reichenbach

*Chrysoptilus peruvianus* Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scans. c Picinae, p. 340, 419, pl. DCLXXX, figs. 4493-94. (Perú; Cutervo designated as type locality by Zimmer, Field Mus. Nat. Hist. Publ., Zool. Ser., 17, 1930, p. 309.)

*Chrysoptilus atricollis lymani* Bangs and Noble, Proc. New England Zool. Cl., 6, 1918, p. 85. (Huancabamba, Perú.)

Eastern Perú (Cutervo, Callacate, Chachapoyas, Huancabamba, Río Marañón.)

<sup>1</sup> The Cat. Bds. Brit. Mus., 18, p. 117 lists two specimens from Trinidad where the species is not known to occur, and one from "Demerara"; no woodpecker of this genus is recorded in Chubb's Bds. Brit. Guiana.

GENUS **PICULUS** SPIX

*Piculus* Spix, Av. Bras., 1, 1824, 3<sup>d</sup> p. of index. Type, by subsequent designation *Piculus macrocephalus* Spix = *Picus chrysochloros* Vieillot. (Oberholser, Proc. Biol. Soc. Washington, 36, 1923, p. 201.)

*Chloronerpes* Swainson, Classif. Bds., 2, 1837, p. 307. Type, by subsequent designation, *C. rubiginosus* Swains. Zool. Ill., pl. 14 = *Picus rubiginosus* Swainson. (G. R. Gray, List Gen. Bds., 1840, p. 54.)

*Hypoxanthus* Bonaparte, Ateneo Italiano, 2, 1854, p. 126. (Consp. Vol. Zygodact., p. 11.). Type, by monotypy and tautonymy, *Picus rivolii* Boissonneau = *Colaptes hypoxanthus* Blyth, 1845.

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 345-348; 55, 1926, p. 359-361.

—, Am. Mus. Novit., no. 96, 1923, p. 6-7.

Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, no. 2, pt. 2, 1919, p. 416-417; 433-440.

Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 408-410.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 236-244.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 339-342.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 124-138.

***Piculus rivolii quindiuna* (Chapman)**

*Hypoxanthus rivolii quindiuna* Chapman, Am. Mus. Novit., no. 96, 1923, p. 6. (Laguneta, 10300 feet, Central Andes, Colombia.)

Humid temperate and subtropical zones of the north portion of the Central Andes of Colombia.

***Piculus rivolii rivolii* (Boissonneau)**

*Picus Rivolii* Boissonneau, Rev. Zool., 1840, p. 36. (No type locality; Chipaque, 9500 feet, 15 miles east of Bogotá, designated by Chapman, 1917, p. 345.)

Temperate zone of the Eastern Andes of Colombia.

***Piculus rivolii meridae* (Chapman)**

*Hypoxanthus rivolii meridae* Chapman, Am. Mus. Novit., no. 96, 1923, p. 6. (Mérida, Venezuela.)

Humid temperate zone of the Andes of Mérida, Venezuela.

**Piculus rivolii brevirostris** (Taczanowski)

*Hypoxanthus brevirostris* Taczanowski, Proc. Zool. Soc. London, 1874 (1875), p. 546. (Higos and Chilpes, central Perú.)

Temperate and subtropical zones of the Andes from southwestern Colombia and Ecuador to central Perú.

**Piculus rivolii atriceps** (Sclater and Salvin)

*Hypoxanthus atriceps* Sclater and Salvin, Proc. Zool. Soc. London, 1876, p. 254. (Huasampilla, Perú.)

Southeastern Perú to Bolivia.

**Piculus auricularis sonoriensis** van Rossem and Hachisuka

*Piculus auricularis sonoriensis* van Rossem and Hachisuka, Proc. Biol. Soc. Washington, 50, 1937, p. 195. (Rancho Santa Barbara, 5000 feet, 20 miles northeast of Guirocoba, southeastern Sonora.)

Western México in southeastern Sonora and possibly adjacent portions of Chihuahua and Sinaloa.

**Piculus auricularis auricularis** (Salvin and Godman)

*Chloronerpes auricularis* Salvin and Godman, Ibis, 1889, p. 381. (Xautipa, Sierra Madre del Sur, Guerrero.)

Western México in southern Sinaloa, Jalisco and Guerrero.

**Piculus aeruginosus** (Malherbe)

*Chrysopicus aeruginosus* Malherbe, Monogr. Piciées, 2, 1862, p. 171; 4, pl. 90<sup>1</sup>, figs. 1, 2, 3. *Ex* Lichtenstein ms, *nomen nudum* (México.)

Northeastern México in southern Nuevo León, southern Tamaulipas, San Luís Potosí, northern Veracruz and Puebla.

**Piculus rubiginosus yucatanensis** (Cabot)

*Picus Yucatanensis* Cabot, Proc. Boston Soc. Nat. Hist., 1, 1844, p. 164. (Yucatán; type from the road between Chemax and Yalahao, *ex* Boston Journ. Nat. Hist., 5, 1845, p. 92.)

Southern Veracruz, Oaxaca, Tabasco, Yucatán, northern Guatemala, British Honduras, Honduras, El Salvador and Nicaragua.

**? Piculus rubiginosus differens** Griscom

*Piculus rubiginosus differens* Griscom, Am. Mus. Novit., no. 379, 1929, p. 11. (Finca Carolina, 3000 feet, ten miles south of Tumbador, district of San Marcos, Guatemala.)

Pacific slope of Guatemala below 3500 feet. Doubtfully distinct from *P. r. yucatanensis*.

<sup>1</sup> The plate is lettered *Chrysopicus aeruginosus*.

**Piculus rubiginosus maximus** Griscom

*Piculus rubiginosus maximus* Griscom, Am. Mus. Novit., no. 379, 1929, p. 11. (Chanquejelve, 5000 feet, Huehuetenango, Guatemala.)

Eastern and central parts of the Pacific highlands of Guatemala between 5000 and 6500 feet, and adjoining parts of Chiapas.

**Piculus rubiginosus uropygialis** (Cabanis)

*Chloronerpes uropygialis* Cabanis, Journ. f. Orn., 10, 1862, p. 321. (Cerro de la Candelaria, Costa Rica.)

Mountains of Costa Rica and western Panamá.

**Piculus rubiginosus alleni** (Bangs)

*Chloronerpes yucatanensis alleni* Bangs, Proc. New England Zool. Cl., 3, 1902, p. 83. (San Sebastián, 6600 feet, Sierra Nevada de Santa Marta, Colombia.)

Santa Marta Mts., Colombia.

**Piculus rubiginosus buenavistae** (Chapman)

*Chloronerpes rubiginosus buenavistae* Chapman, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 386. (Buenavista, 4500 feet, above Villavicencio, Colombia.)

Subtropical zone of the Eastern Andes of Colombia and eastern slopes of the Andes of Ecuador.

**Piculus rubiginosus meridensis** (Ridgway)

*Chloronerpes rubiginosus meridensis* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 33. (Near Mérida, Venezuela.)

Mountains of western Venezuela in the Andes of Mérida and Sierra de Perijá.

**Piculus rubiginosus rubiginosus** (Swainson)

*Picus rubiginosus* Swainson, Zool. Illustr., 1, 1820, pl. 14 and text. ("Spanish Main" = Caracas, Venezuela, by designation of Hellmayr, Verh. Orn. Ges. Bayern, 13, 1918, p. 315, note.)

Mountains of northern Venezuela in states of Carabobo and Sucre and the Federal District.

**Piculus rubiginosus guianae** (Hellmayr)

*Chloronerpes rubiginosus guianae* Hellmayr, Verh. Orn. Ges. Bayern, 13, 1918, p. 314. (Yuruani River, 2700 feet, Terr. Yuruani, Venezuela.)

*Chloronerpes rubiginosus roraimae* Penard, Proc. New England Zool. Cl., 7, 1919, p. 29. (Mt. Roraima, 3500 feet.)

Mountains of southern and eastern Venezuela: Mt. Duida, Mt. Auyan-tepui (lower slopes), Mt. Roraima; British Guiana.

**Piculus rubiginosus viridissimus** Chapman

*Piculus rubiginosus viridissimus* Chapman, Am. Mus. Novit., no. 1051, 1939, p. 8. (Mt. Auyan-tepui plateau, 2200 meters, Venezuela.)

Confined to the upper slopes of Mt. Auyan-tepui, Venezuela.

**Piculus rubiginosus nigriceps** Blake

*Piculus rubiginosus nigriceps* Blake, Field Mus. Nat. Hist., Zool. Ser., 24, 1941, p. 230. (Boundary Camp, 2200 feet, head of Itabu Creek, Acary Mountains, British Guiana.)

Known only from the type locality in extreme southern British Guiana.

**Piculus rubiginosus trinitatis** (Ridgway)

*Chloronerpes rubiginosus trinitatis* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Princetown, Trinidad.)

Island of Trinidad.

**Piculus rubiginosus tobagensis** (Ridgway)

*Chloronerpes rubiginosus tobagensis* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 33. (Tobago.)

Island of Tobago.

**Piculus rubiginosus gularis** (Hargitt)

*Chloronerpes gularis* Hargitt, Ibis, 1889, p. 230. (Santa Elena, Antioquia, Colombia.)

Subtropical zone of the Central Andes of Colombia.

**Piculus rubiginosus pacificus** deSchauensee

*Piculus rubiginosus pacificus* deSchauensee, Notulae Naturae, no. 141, 1944, p. 1. (Munchique, 5700 feet, Western Andes of Colombia.)

Colombia in the southern portion of the Western Andes and in the upper Cauca Valley.

**Piculus rubiginosus rubripileus** (Salvadori and Festa)

*Chloronerpes* [sic] *rubripileus* Salvadori and Festa, Boll. Mus. Zool. Anat. Comp. Torino, 15, 1900, no. 368, p. 14. (Río Peripa, Vinces, Ecuador.)

Tropical zone of extreme southwestern Colombia, western Ecuador and northwestern Perú.

**Piculus rubiginosus coloratus** (Chapman)

*Chloronerpes rubiginosus coloratus* Chapman, Am. Mus. Novit., no. 96, 1923, p. 8. (Chaupe, 6100 feet, northeast of Huanca-bamba, Perú.)

Subtropical zone of north-central Perú.



**Piculus rubiginosus chrysogaster** (Berlepsch and Stolzmann)

*Chloronerpes chrysogaster* Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 32. (La Garita del Sol, central Perú.)

Subtropical zone of central Perú.

**Piculus rubiginosus canipileus** (d'Orbigny)

*Picus canipileus* d'Orbigny, Vol. Am. Mérid., Ois., livr. 51, 1840, pl. 63, f. 2; livr. 89, 1847, p. 379. (Chupé, Yungas, Bolivia.)

Northern Bolivia in departments of La Paz and Cochabamba.

**Piculus rubiginosus tucumanus** (Cabanis)

*Chloronerpes tucumanus* Cabanis, Journ. f. Orn., 31, 1883, p. 103. (Tucumán.)

Central Bolivia south to northwestern Argentina in provinces of Jujuy, Salta and Tucumán.

**Piculus simplex allophyeus** (Bangs)

*Chloronerpes simplex allophyeus* Bangs, Bull. Mus. Comp. Zoöl., 39, 1903, p. 145. (Yaruca, 1000 feet, Honduras.)

Known only from the unique type.

**Piculus simplex simplex** (Salvin)

*Chloronerpes simplex* Salvin, Proc. Zool. Soc. London, 1870, p. 212. (Bugaba, Chiriquí.)

*Chloronerpes simplex auroræ* Griscom, Am. Mus. Novit., no. 293, 1928, p. 3. (Almirante, Bocas del Toro, Panamá.)

Central America from Nicaragua to western Panamá.

**Piculus flavigula flavigula** (Boddaert)

*Picus flavigula* Boddaert, Table Pl. enlum., 1783, p. 49. (Cayenne, ex Daubenton, Pl. enlum., pl. 784.)

Eastern Venezuela, the Guianas, eastern Ecuador, eastern Perú, and Brazil north of the Amazon and east of the Rio Negro.

**Piculus flavigula magnus** (Cherrie and Reichenberger)

*Chloronerpes flavigula magnus* Cherrie and Reichenberger, Am. Mus. Novit., no. 27, 1921, p. 4. (Monte Cristo, Mato Grosso.)

Southeastern Colombia and northwestern Brazil, eastward to the mouth of the Rio Negro, and south of the Amazon from the Juruá eastward, extending into northern Maranhão, south in Mato Grosso to the Juparaná.

**Piculus flavigula erythropis** (Vieillot)

*Picus erythropis* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Brazil.)

Eastern and southeastern Brazil in states of Pernambuco, Baía, Espírito Santo, Goiás, Minas Gerais, Rio de Janeiro and São Paulo.

**Piculus leucolaemus callopterus** (Lawrence)

*Chloronerpes callopterus* Lawrence, Ann. Lyc. Nat. Hist. New York, 7, 1862, p. 476. (New Grenada = Lion Hill, Canal Zone.)

Panamá from Veraguas to Darién.

**Piculus leucolaemus litae** (Rothschild)

*Chloronerpes litæ* Rothschild, Bull. Brit. Orn. Cl., 11, 1901, p. 70. (Lita, 3000 feet, Ecuador.)

Tropical zone of western Colombia and northwestern Ecuador.

**Piculus leucolaemus leucolaemus** (Natterer and Malherbe)

*Picus leucolaemus* Natterer and Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 68. (Brazil.)

*Chloronerpes leucolaemus australis* Carriker, Proc. Acad. Nat. Sci. Philadelphia, 87, 1935, p. 318. (Santa Ana, 2200 feet, Río Coroico, La Paz, Bolivia.)

Eastern Colombia, eastern Ecuador, eastern Perú, western Brazil (Manacapurú and Rio Guaporé), and Bolivia in departments of La Paz, El Beni and Santa Cruz.

**Piculus aurulentus** (Temminck)

*Picus aurulentus* Temminck, Pl. col., livr. 10, 1823, pl. 59, f. 1. (Paraguay and Brazil.)

Southeastern Brazil in states of Minas Gerais, Rio de Janeiro, São Paulo, Paraná and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones; records of occurrence in Chaco and Formosa require confirmation.

**Piculus chrysochloros aurosus** (Nelson)

*Chloronerpes chrysochlorus aurosus* Nelson, Smiths. Misc. Coll., 60, 1912, no. 3, p. 3. (Marraganti, Panamá.)

Known only from the unique type.

**Piculus chrysochloros xanthochlorus** (Sclater and Salvin)

*Chloronerpes xanthochlorus* Sclater and Salvin, Proc. Zool. Soc. London, 1875, p. 237. (San Cristóbal, Táchira, Venezuela.)

Northeastern Colombia, and northwestern Venezuela in the Lake Maracaibo region and the coasts of Falcón.

**Piculus chrysochloros capistratus** (Malherbe)

*Chloropicus capistratus* Malherbe, Monogr. Piciées, 2, 1862, p.

140; 4, pl. 83, figs. 4, 5 and 6. (Brazil, *ex* Natterer MS.; restricted type locality, Rio Negro, Hellmayr, Nov. Zool., 17, 1910, p. 381, note.)

Known from Colombia east of the Eastern Andes, eastern Perú (Sarayacu), northwestern Brazil in the Rio Negro region and the Rupununi River, British Guiana.

***Piculus chrysochloros guianensis* Todd**

*Piculus chrysochloros guianensis* Todd, Ann. Carnegie Mus., 25, 1937, p. 248. (Pied Saut, Oyapock River, French Guiana.)

French Guiana: Oyapock River.

***Piculus chrysochloros laemostictus* Todd**

*Piculus chrysochloros laemostictus* Todd, Ann. Carnegie Mus., 25, 1937, p. 249. (São Paulo de Olivença, Rio Solimões, Brazil.)

Western Brazil south of the Amazon east to the upper Rio Purús.

***Piculus chrysochloros hypochryseus* Todd**

*Piculus chrysochloros hypochryseus* Todd, Ann. Carnegie Mus., 25, 1937, p. 250. (Arimã, Rio Purús, Brazil.)

Brazil south of the Amazon from the Purús eastward to the Tapajóz, and northern Bolivia in Department of El Beni.

***Piculus chrysochloros paraensis* (Snethlage)**

*Chloronerpes paraensis* E. Snethlage, Orn. Monatsb., 15, 1907, p. 163. (Murutucú, near Belém.)

Northeastern Brazil from east of the Tapajóz to northern Maranhão.

***Piculus chrysochloros polyzonus* (Valenciennes)**

*Picus polyzonus* Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 170. (Brazil.)

Southeastern Brazil in states of Espírito Santo and Rio de Janeiro.

***Piculus chrysochloros chrysochloros* (Vieillot)**

*Picus chrysochloros* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 98. (Paraguay and Brazil.)

*Picus Braziliensis* Swainson, Zool. Illustr., 1, 1820–21 (1821), pl. 20. (interior of the State of Baía, Brazil.)

Eastern and interior Brazil in states of Piauí, Ceará, Baía, Minas Gerais and Mato Grosso; Bolivia; Paraguay; northern Argentina in provinces of Jujuy, Salta, Formosa and Chaco.

GENUS **CAMPETHERA** G. R. GRAY<sup>1</sup>

*Dendromus* Swainson, *Classif. Bds.*, 2, 1837, p. 307. Type, by subsequent designation, *D. brachyrhynchus* Swains. = *Picus maculosus* Valenciennes (G. R. Gray, *List Gen. Bds.*, 1840, p. 54.) Not *Dendromus* Swainson, 1829, *Mammalia*.

*Campethera* G. R. Gray, *List Gen. Bds.*, 1841, p. 70. Type, by original designation, *C. brachyrhyncha* (Swains.) = *Dendromus brachyrhynchus* Swainson = *Picus maculosus* Valenciennes.

*Chrysoptilopicus* Malherbe, *Rev. Zool.*, 1845, p. 403. Type, by monotypy, *Picus (Chrysoptilopicus) smithii* Malherbe.

*Notopicus* Roberts, *Ann. Transvaal Mus.*, 8, 1922, p. 222. Type, by original designation and monotypy, *Picus notatus* Lichtenstein.

cf. Bannerman, *Bds. Trop. W. Afr.*, 3, 1933, p. 426-440.

Chapin, *Bull. Am. Mus. Nat. Hist.*, 75, 1939, p. 563-578.

Friedmann, *Bull. U. S. Nat. Mus.*, no. 153, 1930, p. 474-481.

Friedmann and Loveridge, *Bull. Mus. Comp. Zoöl.*, 81, 1937, p. 189-193.

Grant and Mackworth-Praed, *Bull. Brit. Orn. Cl.*, 59, 1939, p. 51-52; 60, 1939, p. 17-18 (races of *abingoni*.)

***Campethera punctuligera punctuligera* (Wagler)**

*Picus punctuligerus* Wagler, *Syst. Av.*, 1827, *Picus*, sp. 36. (Senegambia.)

*Campothera punctuligera riggenbachii* Grote, *Journ. f. Orn.*, 71, 1923, p. 369. (Sangere-Kodjoie, Adamawa.)

West Africa from Senegal to Lake Chad and the Ubangi-Shari, south to the Gold Coast interior and the Niger Delta.

***Campethera punctuligera batesi* (Bannerman)**

*Campothera batesi* Bannerman, *Bull. Brit. Orn. Cl.*, 43, 1923, p. 143. (North of Ngaundere, 2500 feet, Cameroons.)

Confined to eastern Cameroons, south of the steppe country and north of the forest.

***Campethera punctuligera balia* (Heuglin)**

*Picus balius* Heuglin, *Orn. Nord-Ost Afr.*, 1, Abth. 2, 1871, p. 810. (Djur and Bongo, upper Bahr el Ghazal.)

*Dendromus hargitti* Sharpe, *Ibis*, 1902, p. 638. (Semio [now Zémio], Niam Niam country.)

<sup>1</sup> Replaces *Campothera* G. R. Gray of Sharpe's Hand-list (emendation).



Region south of Lake Chad and the great bend of the Ubangi east to the Bahr el Ghazal and the upper Uelle district.

**Campethera nubica nubica** (Boddaert)

*Picus Nubicus* Boddaert, Table Pl. enlum., 1783, p. 41. (Nubia, based on Daubenton, Pl. enlum, pl. 667.)

*Dendromus neumanni* Reichenow, Orn. Monatsb., 4, 1896, p. 132. (Lake Naivasha, Kenya Colony.)

*Dendromus niger* Neumann, Orn. Monatsb., 10, 1902, p. 9. (Buka Mts., Ethiopia.)

Darfur, the Sudan, and Ethiopia, south to northern Kivu, Uganda and south-central Tanganyika Territory (Iringa) ; replaced by the next form in the East African coastal region.

**Campethera nubica pallida** (Sharpe)

*Dendromus pallidus* Sharpe, Ibis, 1902, p. 638 (Lamu, Kenya Colony.)

Coastal region of East Africa from Gallaland and Somaliland to eastern Tanganyika Territory (Mpwapa, Kilosa, Morogoro).

**Campethera nubica scriptoricauda** (Reichenow)

*Dendromus scriptoricauda* Reichenow, Orn. Monatsb., 4, 1896, p. 131. (No locality, the type in the Berlin Museum is from Bumi, Tanganyika, Territory.)<sup>1</sup>

*Dendromus albifacies* Gunning and Roberts, Ann. Transvaal Mus., 3, 1911, p. 112. (Villa Pereira, Boror, Mozambique.)

*Dendromus aureicuspis* Reichenow, Orn. Monatsb., 23, 1915, p. 26. (Usagara, Tanganyika Territory.)

Tanganyika Territory (Kilosa, Morogoro) south to Nyasaland and Mozambique.

**Campethera bennettii uniamwesica** (Neumann)

*Dendromus bennettii uniamwesicus* Neumann, Orn. Monatsb., 16, 1908, p. 27. (Kakoma, Tanganyika Territory.)

Vicinity of Lake Victoria across western Tanganyika Territory and the southeastern Congo to northern Angola and Northern Rhodesia.

**Campethera bennettii bennettii** (A. Smith)

*Chrysophilus Bennettii* A. Smith, Report Exped. Centr. Afr., 1836, p. 53. ("Country about and beyond Kurrichaine" = western Transvaal.)

Southern Rhodesia to Zululand and the Transvaal.

<sup>1</sup> Grant and Mackworth-Praed (Bull. Brit. Orn. Cl., 58, 1938, p. 146-147) believe that the record from Lamu, Kenya Colony, is an error brought about by the relabelling of Kirk's collection and destruction of the original labels.



***Campethera bennettii capricorni* Strickland**

*Campethera capricorni* Strickland, in Jardine's Contr. Orn. for 1852, 1853, p. 155. (Damaraland.)

Southern Angola, Damaraland and the central Kalahari.

***Campethera cailliautii nyansae* (Neumann)**

*Dendromus malherbei nyansae* Neumann, Journ. f. Orn., 48, 1900, p. 204. (Mwanza, Tanganyika Territory.)

Regions about the western and southern shores of Lake Victoria, and probably the Kivu district.

***Campethera cailliautii cailliautii* (Malherbe)**

*Chrysopicos Cailliautii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 540. (Africa; Mombasa designated by C. H. B. Grant, Ibis, 1915, p. 454, 455.)

*Chrysopicus Malherbei* Cassin, Proc. Acad. Nat. Sci. Philadelphia, July, 1863, p. 198 (Zanzibar.); *idem* Journ. Acad. Nat. Sci. Philadelphia, 5, Nov., 1863, p. 459, pl. 51, f. 3.

*Campethera loveridgei* Hartert, Bull. Brit. Orn. Cl., 40, 1920, p. 139. (Morogoro, Tanganyika Territory.)

Coasts of East Africa from the Tana River to Dar es Salaam; Zanzibar Island.

***Campethera cailliautii fülleborni* (Neumann)**

*Dendromus malherbei fülleborni* Neumann, Journ. f. Orn., 48, 1900, p. 204. (Langenburg, northeast of Lake Nyasa.)

The Katanga and northern end of Lake Tanganyika, south to Northern Rhodesia, Nyasaland and the Beira district of Mozambique.

***Campethera notata* (Lichtenstein)**

*Picus notatus* H. Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 11. ("Terra Caffrorum".)

Wooded portions of southern and eastern Cape Province and adjacent parts of Natal.

***Campethera abingoni chrysurus* (Swainson)**

*Dendromus chrysurus* Swainson, Bds. W. Afr., 2, 1837, p. 158. (West Africa.)

Thorn scrub savanna from Senegal east to the Bahr el Ghazal and the upper Uelle.

***Campethera abingoni tessmanni* (Reichenow)**

*Dendromus chrysurus tessmanni* Reichenow, Journ. f. Orn., 69, 1921, p. 47. (Eastern savanna of Cameroons.)

Eastern savanna country of Cameroons.

**Campethera abingoni annectens** (Neumann)

*Dendromus abingoni annectens* Neumann, Bull. Brit. Orn. Cl., 21, 1908, p. 95. (Sambo, Benguella.)

Gaboon eastward to the Kivu district and south to Benguella and Nyasaland; absent from the forested areas.

**Campethera abingoni kavirondensis** (van Someren)

*Campothera abingdoni kavirondensis* van Someren, Bull. Brit. Orn. Cl., 47, 1926, p. 70. (Lolgorien, South Kavirondo.)

Southwestern Kenya Colony to south-central Tanganyika Territory.

**Campethera abingoni mombassica** (Fischer and Reichenow)

*Picus (Campothera) mombassicus* Fischer and Reichenow, Journ. f. Orn., 32, 1884, p. 262. (Mombasa.)

Coast of East Africa from the Juba River south to the Usambara Mts.

**Campethera abingoni suahelica** (Reichenow)

*Dendromus chrysurus suahelicus* Reichenow, Vög. Afr., 2, 1902, p. 175. (Tanganyika Territory.)

Inland parts of Tanganyika Territory (between the ranges of *kavirondensis* and *mombassica*) and extending to the coast in the southeast.

**Campethera abingoni abingoni** (A. Smith)

*Chrysoptilus Abingoni*<sup>1</sup> A. Smith, Report Exped. Centr. Afr., 1836, p. 53. (Port Natal, i.e. Durban, Natal.)

Nyasaland and Mozambique, southward through eastern Southern Rhodesia and the eastern Transvaal to Natal.

**Campethera abingoni smithii** (Malherbe)

*Picus (Chrysoptilopicus) Smithii* Malherbe, Rev. Zool., 1845, p. 403. (South Africa.)

Western Southern Rhodesia south to Bechuanaland and western Transvaal.

**Campethera abingoni anderssoni** (Roberts)

*Chrysoptilopicus abingoni anderssoni* Roberts, Ann. Transvaal Mus., 18, 1936, p. 255. (Windhoek, South-West Africa.)

South Africa west of the Kalahari Desert.

**Campethera taeniolaema taeniolaema** (Reichenow and Neumann)

*Campothera taeniolaema* Reichenow and Neumann, Orn.

<sup>1</sup> Sometimes misspelled *abingdoni* or *abingtoni*.

Monatsb., 3, 1895, p. 73. (Guasso-Massai and Eldoma Station, Kenya Colony.)

Forested highlands of Kenya Colony west of the Rift Valley and extending to Toro and the Kivu district.

?*Campethera taeniolaema barakae* (Van Someren)

*Campothera teniolæma barakæ* Van Someren, Bull. Brit. Orn. Cl., 40, 1920, p. 96. (Baraka, Lake Tanganyika.)

Mountains northwest of Lake Tanganyika; doubtfully distinct from *C. t. taeniolaema*.

*Campethera taeniolaema hausburgi* (Sharpe)

*Campothera hausburgi* Sharpe, Bull. Brit. Orn. Cl., 10, 1900, p. xxxvi. (Mt. Kenya.)

Forested highlands of Kenya Colony east of the Rift Valley, eastward to the Meru and Nairobi districts.

*Campethera tullbergi tullbergi* (Sjöstedt)

*Campothera Tullbergi* Sjöstedt, Journ. f. Orn., 40, 1892, p. 313. (Itoki Na N'Golo, Cameroons.)

Cameroon Mt.

*Campethera tullbergi bansoensis* Bates

*Campethera tullbergi bansoensis* Bates, Bull. Brit. Orn. Cl., 46, 1926, p. 93. (Banso Mts., north of Kumbo, Cameroons.)

Banso Mts. (except Oku district), Nigeria-Cameroons border.

*Campethera tullbergi wellsi* Bates

*Campethera wellsi* Bates, Bull. Brit. Orn. Cl., 46, 1926, p. 92. (Oku, west of Kumbo, Cameroons.)

Oku district of the Banso Mts.

*Campethera maculosa* (Valenciennes)

*Picus maculosus* Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 173. (Senegal.)

Portuguese Guinea, Sierra Leone, Liberia and Gold Coast.

*Campethera permista togoensis* (Neumann)

*Dendromus permistus togoensis* Neumann, Journ. f. Orn., 52, 1904, p. 393. (Misa Highlands, Togoland.)

Gold Coast, Togoland and Southern Nigeria.

*Campethera permista permista* (Reichenow)

*Picus (Campothera) permistus* Reichenow, Journ. f. Orn., 24, 1876, p. 97. (Gold Coast, Cameroons and Gaboon = Gaboon ex Malherbe, Monogr. Piciées, 2, 1862, p. 152.)

*Dendromus permistus angolensis* Neumann, Journ. f. Orn., 52, 1904, p. 393. (Angola.)

Cameroons south to northern Angola and eastward across the Lower Guinea forest to the Semliki Valley.

***Campethera permista kaffensis* (Neumann)**

*Dendromus permistus kaffensis* Neumann, Orn. Monatsb., 10, 1902, p. 9. (Dalba, Konta, Kaffa Province, Ethiopia.)

Southwestern Ethiopia.

***Campethera caroli arizela* (Oberholser)**

*Dendromus caroli arizelus* Oberholser, Proc. U.S. Nat. Mus., 22, 1899, p. 29. (Mt. Coffee, Liberia.)

Liberia.

***Campethera caroli caroli* (Malherbe)**

*Chloropicus Caroli* Malherbe, Rev. et Mag. Zool. (2), 4, 1852, p. 550. (Gaboons.)

*Dendromus kasaicus* Dubois, Rev. Franç. d' Orn., 2, 1911, p. 17. (Kasai district, Belgian Congo.)

Lower Guinea forest, reaching the forest patches of Gold Coast and northern Angola and extending into the gallery forests of the Uelle and the Kasai.

***Campethera caroli budongoensis* (Van Someren)**

*Campothera caroli budongoensis* Van Someren, Bull. Brit. Orn. Cl., 41, 1921, p. 105. (Bugoma Forest, Uganda.)

Forests of Uganda and western Kenya Colony (Mt. Elgon).

***Campethera nivosa nivosa* (Swainson)**

*Dendromus nivosus* Swainson, Bds. W. Afr., 2, 1837, p. 162. (West Africa.)

Casamance and Portuguese Guinea to the Gold Coast and perhaps Southern Nigeria.

***Campethera nivosa poensis* (Alexander)**

*Campothera poensis* B. Alexander, Bull. Brit. Orn. Cl., 13, 1903, p. 33. (Besoso, Fernando Po.)

Confined to the Island of Fernando Po.

***Campethera nivosa efulenensis* (Chubb)**

*Dendromus efulenensis* Chubb, Bull. Brit. Orn. Cl., 21, 1908, p. 92. (Efulen district, Cameroons.)

Forested areas of Cameroons to the forests of northern Angola.

***Campethera nivosa herberti* (Alexander)**

*Dendromus herberti* B. Alexander, Bull. Brit. Orn. Cl., 21, 1908,

p. 89. (Bwande, Ubangi River ♂, and Bugoma Forest, Unyoro ♀.)

Middle Congo and Ubangi Rivers eastward to the Budongo and Mabira forests in Uganda.

**Campethera nivosa yalensis** Bowen

*Campethera nivosa yalensis* Bowen, Proc. Acad. Nat. Sci. Philadelphia, 83, 1931, p. 451. (Yala River, Kavirondo district, Kenya Colony.)

Kavirondo and Nandi districts of Kenya Colony.

GENUS **CELEUS** BOIE

*Celeus* Boie, Isis von Oken, 1831, col. 542. Type, by subsequent designation, *C. flavescens* (Gm.) = *Picus flavescens* Gmelin. (G. R. Gray, List Gen. Bds., 1840, p. 55.)

*Cerchneipicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 123. (Consp. Vol. Zygodact., p. 9.) Type, by subsequent designation, *Picus tinnunculus* Wagler. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 93.)

*Cerchneopipo* Sundevall, Consp. Av. Picinarum, 1866, p. 116. Emendation.

*Crocomorphus* Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. xiv, 6 (in key), 439. Type, by original designation, *C. flavus* = *Picus flavus* Müller.

cf. Cory, Field Mus. Nat. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 448-457.

Naumburg, Bull. Am. Mus. Nat. Hist., 60, 1930, p. 181-184.

Pinto, Rev. Mus. Paulista, 22, 1938, p. 344-350.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 138-146.

**Celeus flavescens ochraceus** (Spix)

*Picus ochraceus* Spix, Av. Bras., 1, 1824, p. 59, pl. 51, f.1 ("in sylvis Amazonum".)

Eastern Brazil in states of Pará, Maranhão, Piauí, Ceará, Pernambuco and northwestern Baía.

**Celeus flavescens intercedens** Hellmayr

*Celeus flavescens intercedens* Hellmayr, Nov. Zool., 15, 1908, p. 82. (Fazenda Esperança, Goiáz.)

Brazil in states of Goiáz and northeastern Baía.

**Celeus flavescens flavescens** (Gmelin)

*Picus flavescens* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 427. (Brazil; restricted to Rio de Janeiro by Cory, *antea*, p. 448.)



Southeastern Brazil from southeastern Mato Grosso, Minas Gerais and southern Baía south to eastern Paraguay (Río Alto Paraná) and Rio Grande do Sul.

**Celeus flavescens lugubris** (Malherbe)

*Celeopicus lugubris* Malherbe, Bull. Soc. Hist. Nat. Dépt. Moselle, 6<sup>e</sup> cahier, 1851, p. 77. (Brazil; Mato Grosso designated as type locality by Naumburg, *antea*, p. 181.) <sup>1</sup>

Bolivian Chaco.

**Celeus flavescens roosevelti** Cherrie

*Celeus roosevelti* Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 183. (Tapirapoan, Mato Grosso.)

Extreme southeastern Bolivia (Puerto Suárez) and western Mato Grosso from Tapirapoan south to Corumbá and Miranda.

**Celeus flavescens kerri** Hargitt

*Celeus kerri* Hargitt, Ibis, 1891, p. 605. (Rio Pilcomayo; type from Fortín Donovan.) Col. pl., Ibis, 1892, pl. 3.

Extreme southwestern Mato Grosso (Pan de Azucar), western Paraguay (Río Paraguay drainage) and northern Argentina in territories of Formosa and Chaco.

**Celeus spectabilis spectabilis** Sclater and Salvin

*Celeus spectabilis* Sclater and Salvin, Proc. Zool. Soc. London, 1880, p. 161. (Sarayacu, Ecuador.)

Eastern Ecuador.

**Celeus spectabilis exsul** Bond and deSchauensee

*Celeus spectabilis exsul* Bond and deSchauensee, Notulae Naturae, no. 93, 1941, p. 4. (Todos Santos, 1000 feet, Río Chaparé, Cochabamba, Bolivia.)

Bolivia in depts. of El Beni and Cochabamba.

**Celeus castaneus** (Wagler)

*Picus castaneus* Wagler, Isis von Oken, 22, 1829, col. 515. (No locality; Veracruz, México, designated by Cory, *antea*, p. 453, note d.)

Southeastern México southward over Central America in the humid tropical zone to northwestern Costa Rica on the west and to the Chiriquí Lagoon, Panamá, on the east.

<sup>1</sup> Todd, Ann. Carnegie Mus., 30, 1946, p. 305, restricts the name to fig. 1 of pl. 54 of Malherbe's Monogr. Pícidées which fits the race of the bird of the Bolivian Chaco and in turn deprives the bird of western Mato Grosso of a name, to supply which he resurrects *Celeus roosevelti*.

**Celeus immaculatus** Berlepsch

*Celeus immaculatus* Berlepsch, Ibis, 1880, p. 113. (Agua Dulce, Panamá.) <sup>1</sup>

Known only from the unique type; its exact source is doubtful.

**Celeus elegans hellmayri** Berlepsch

*Celeus elegans hellmayri* Berlepsch, Nov. Zool., 15, 1908, p. 272. (British Guiana; *Cory antea*, p. 450, note d. suggests Cumacusa, Mazaruni River.)

Eastern Venezuela, British Guiana and Surinam.

**Celeus elegans léotaudi** Hellmayr

*Celeus elegans léotaudi* Hellmayr, Nov. Zool., 13, 1906, p. 39. (Valencia, Trinidad.)

Island of Trinidad.

**Celeus elegans approximans** Cory

*Celeus elegans approximans* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 450 and note a, pl. 2, fig. 2. (Base of Serra da Lua, near Boa Vista, Rio Branco, Brazil.)

Upper Rio Branco region of Brazil and probably the adjacent parts of British Guiana.

**Celeus elegans elegans** (P.L.S. Müller)

*Picus elegans* P.L.S. Müller, Natursyst., Suppl., 1776, p. 92. (Cayenne.)

*Celeopicus reichenbachii* Malherbe, Monogr. Piciées, 2, 1862, p. 28; 4, pl. 56, figs. 4, 5. (Brazil and Colombia.)

Cayenne and adjacent parts of Brazil south to the Amazon at Obidos; recorded also from the Tapajóz, *fide* Pinto, *antea*, p. 346.

**Celeus jumana citreopygius** Sclater and Salvin

*Celeus citreopygius* Sclater and Salvin, Proc. Zool. Soc. London, 1867, p. 758. (Yurimaguas, Perú.)

Southeastern Colombia, eastern Ecuador and eastern Perú.

**Celeus jumana jumana** (Spix) <sup>2</sup>

*Picus jumana* Spix, Av. Bras., 1, 1824, p. 57, pl. 47. ("in Sylvis fl. Amazonum".)

<sup>1</sup> The original specimen was named from a trade-skin which its describer believed to be in the Agua Dulce "make"; nearly seventy years have elapsed since its discovery and the type remains unique. It is evidently closely allied to the *Celeus elegans* group, but in its unbarred inner surface of the primaries shows an approach to *castaneus*.

<sup>2</sup> *Celeus jumana* is very close to *C. e. elegans* and would certainly be regarded as a subspecies of it did the two not occur at or near the same places at certain points in their ranges.

Extreme eastern Colombia (Maipures), southern Venezuela, valley of the Rio Negro and the Amazon Valley in Brazil from the Solimões to Manacapurú on the north, and from the Juruá to the Tocantins on the south, thence extending eastward into Maranhão.

?**Celeus jumana saturatus** Carriker

*Celeus jumana saturata* [sic] Carriker, Proc. Acad. Nat. Sci. Philadelphia, 87, 1935, p. 318. (Chatarona, near Reyes, Beni, Bolivia.)

Northern Bolivia on the lower Río Beni; very doubtfully distinct from *C. j. jumana*.

**Celeus grammicus verreauxii** (Malherbe)

*Celeopicus Verreauxii* Malherbe, Rev. et Mag. Zool. (2), 10, 1858, p. 8. (Ecuador.)

Southeastern Colombia and eastern Ecuador.

**Celeus grammicus grammicus** (Natterer and Malherbe)

*Picus grammicus* Natterer and Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 69. (Brazil; Marabitanas, upper Rio Negro, designated by Naumburg, *antea*, p. 183.)

Southern Venezuela, western Brazil and northeastern Perú, east to the Rio Negro on the north and to the Purús on the south.

**Celeus grammicus undulatus** Todd

*Celeus grammicus undulatus* Todd, Ann. Carnegie Mus., 25, 1937, p. 252. (Río Mocho, Río Caura, Venezuela.)

Known only from the type locality.

**Celeus grammicus subcervinus** Todd

*Celeus grammicus subcervinus* Todd, Ann. Carnegie Mus., 25, 1937, p. 252. (Villa Braga, Rio Tapajóz, Brazil.)

South bank of the Amazon from the lower Purús to the Tapajóz (both banks).

**Celeus grammicus latifasciatus** Seilern

*Celeus grammicus latifasciatus* Seilern, Ann. Naturhist. Hofmus. Wien, 47, 1936, p. 36. (Yahuarmayo, 1200 feet, Sierra de Carabaya, Perú.)

Southeastern Perú, and northeastern Bolivia on the Río Beni.

**Celeus loricatus diversus** Ridgway

*Celeus loricatus diversus* Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 140 (in key), p. 145. (Caribbean lowlands of Costa Rica; type from Talamanca, *fide* Cory, *antea*, p. 453.)

Lowlands of southeastern Costa Rica and adjacent parts of western Panamá.

**Celeus loricatus mentalis** Cassin

*Celeus mentalis* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1860, p. 137. (Turbo, Colombia.)

Panamá from the Canal Zone eastward, and extreme northwestern Colombia.

**Celeus loricatus innotatus** Todd

*Celeus innotatus* Todd, Proc. Biol. Soc. Washington, 30, 1917, p. 5. (Jaraquiel, Bolívar, Colombia.)

Northern Colombia in the Río Sinu region and the lower Magdalena valley.

**Celeus loricatus degener** Todd

*Celeus innotatus degener* Todd, Proc. Biol. Soc. Washington, 32, 1919, p. 116. (El Tambor, Santander, Colombia.)

Colombia in Dept. of Santander (Lebrija Valley).

**Celeus loricatus loricatus** (Reichenbach)

*Meiglyptes loricatus* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 405, pl. DCLXXXI, figs, 4495, 4496. (Perú.)

Tropical zone of the Pacific coast of South America from the middle Atrato valley in Colombia to western Ecuador; northwestern Perú?

**Celeus undatus undatus** (Linné)

*Picus undatus* Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (Surinam.)

The Guianas and northern Brazil.

**Celeus undatus multifasciatus** (Natterer and Malherbe)

*Picus multifasciatus* Natterer and Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 69. (Brazil.)

The Pará region in northeastern Brazil.

**Celeus flavus flavus** (P.L.S. Müller)

*Picus flavus* P.L.S. Müller, Natursyst., Suppl., 1776, p. 91. (Cayenne.)

*Celeus semicinnamomeus* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 407, pl. DCLXI, f. 4386. (South America.)

Colombia from the eastern base of the Andes (Buenavista, Villavicencio) and the eastern llanos, southern and eastern Venezuela, the Guianas and perhaps Brazilian Guiana.

**Celeus flavus peruvianus** (Cory)

*Crocomorphus flavus peruvianus* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 457. (Lagunas, lower Huallaga River, Perú.)

Eastern Perú, western Brazil east to the left bank of the Purús, and northern Bolivia on the left bank of the lower Beni and at the mouth of the Chaparé.

**Celeus flavus inornatus** (Cherrie)

*Crocomorphus flavus inornata* [sic] Cherrie, Bull. Am. Mus. Nat. Hist., 35, 1916, p. 395. (Santarem, Rio Tapajóz, Brazil.)

Amazonian Brazil from the Rio Negro, the right bank of the Purús and the right bank of the lower Beni (Bolivian territory) eastward to the Pará region.

**Celeus flavus tectricialis** (Hellmayr)

*Crocomorphus flavus tectricialis* Hellmayr, Anz. Orn. Ges. Bayern, no. 6, 1922, p. 46. (Boa Vista, Maranhão, Brazil.)

Northeastern Brazil in states of Maranhão and Piauí.

**Celeus flavus subflavus** Sclater and Salvin

*Celeus subflavus* Sclater and Salvin, Proc. Zool. Soc. London, 1877, p. 21. (Baía.)

Eastern Brazil in states of Baía and Espírito Santo.

**Celeus torquatus torquatus** (Boddaert)

*Picus torquatus* Boddaert, Table Pl. enlum., 1783, p. 52. (Cayenne, ex Daubenton, pl. 863.)

Eastern Venezuela, the Guianas and northern Brazil (Serra de Lua, Rio Branco, Obidos).

**Celeus torquatus occidentalis** (Hargitt)

*Cerchneipicus occidentalis* Hargitt, Ibis, 1889, p. 230. (Upper Ucayali, Perú ♂ ; Brazil ♀.) Col. pl., Cat. Bds. Brit. Mus., 18, pl. 11.

Eastern Perú, Brazil east to the Purús and in western Mato Grosso; Bolivia, one record (Buenavista).

**Celeus torquatus angustus** (Griscom and Greenway)

*Cerchneipicus tinnunculus angustus* Griscom and Greenway, Bull. Mus. Comp. Zool., 81, 1937, p. 432. (Caxiricatuba, right bank of the Rio Tapajóz, Brazil.)

Amazonian Brazil, where known only from the Rio Tapajóz, but probably extending west to the Rio Madeira.



**Celeus torquatus tinnunculus** (Wagler)

*Picus Tinnunculus* Wagler, Isis von Oken, 22, 1829, col. 516.  
(Brazil.)

Eastern Brazil in State of Baía.

**GENUS MICROPTERNUS BLYTH**

*Micropternus* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845,  
p. 194. Type, by original designation, *Picus badius* Raffles.

cf. Stuart Baker, Ibis, 1919, p. 197-204.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 148.

Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p.  
223-225.

Robinson, Ibis, 1919, p. 179-181.

Whistler and Kinneer, Journ. Bombay Nat. Hist. Soc., 37,  
1934, p. 290-292.

**Micropternus brachyurus humei** Kloss

*Micropternus brachyurus humei* Kloss, Ibis, 1918, p. 109.  
("Kumaon, Bhabur, northern Rohilkund, the Dhoon, etc." *ex*  
Hume, Proc. As Soc. Bengal, 1872, p. 70.)

Northwestern Himalayas.

**Micropternus brachyurus phaiiceps** (Blyth)

*Picus (micropternus) gularis* Jerdon, Madras Journ. Lit. Sci., 13,  
1844, pt. 2, p. 139. (South India.) Not *Picus gularis*  
Wagler, 1827.

*Picus (Micropternus) phaiiceps* Blyth, Journ. As. Soc. Bengal,  
14, pt. 1, 1845, p. 195. ("India proper extending eastward to  
Tipperah and Arracan"; restricted type locality, Calcutta.)

*Micropternus brachyurus williamsoni* Kloss, Ibis, 1918, p. 107.  
(Koh Lak, southwestern Siam.)

*Micropternus brachyurus mesos* Kloss, Ibis, 1918, p. 108. (Cut-  
tack, Calcutta and Bengal.)

Nepal and Assam south to northeastern part of the Indian Penin-  
sula (the Balaghat and Anantagiri), all of Burma, the Shan States  
and Siam. The record of *M. b. fokiensis* from Tengyueh, Yunnan  
is doubtless to be referred here.

**Micropternus brachyurus jerdonii** (Malherbe)

*Phaiopicos Jerdonii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849,  
p. 535. (Indian Peninsula; restricted to Travancore by  
Whistler and Kinneer, *antea*, p. 291.)

*Micropternus brachyurus lanka* Kloss, Ibis, 1918, p. 108. (Cey-  
lon.)

Western side of the Indian Peninsula, extending into the Shevaroy Hills; Ceylon.

***Micropternus brachyurus annamensis* Delacour and Jabouille**

*Micropternus brachyurus annamensis* Delacour and Jabouille,  
Bull. Brit. Orn. Cl., 45, 1924, p. 31. (Hailing, Annam.)

Laos, central and southern Annam, Cambodia and Cochinchina.

***Micropternus brachyurus fokiensis* (Swinhoe)**

*Brachypternus fokiensis* Swinhoe, Proc. Zool. Soc. London, 1863,  
p. 87. (Foochow, Fukien.)

Southeastern China in provinces of Fukien, Kwangtung and Kwangsi; Tonkin and northern Annam.

***Micropternus brachyurus holroydi* Swinhoe**

*Micropternus holroydi* Swinhoe, Ibis, 1870, p. 95. (Central Hainan.)

Hainan.

***Micropternus brachyurus squamigularis* (Sundevall)**

*Picus squamigularis* Sundevall, Consp. Av. Picinarum, 1866, p.  
89. (Malacca.)

Malay Peninsula.

***Micropternus brachyurus badius* (Raffles)**

*Picus badius* Raffles, Trans. Linn. Soc. London, 13, pt. 2, 1822,  
p. 289. (Sumatra.)

Sumatra, Bangka, Mendanau, Billiton.

***Micropternus brachyurus celaenephis* Oberholser**

*Micropternus phaiiceps celaenephis* Oberholser, Smiths. Misc.  
Coll., 60, 1912, no. 7, p. 6. (Lafau, Nias Island.)

Nias Island.

***Micropternus brachyurus brachyurus* (Vieillot)**

*Picus brachyurus* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p.  
103. (Java.)

*Colaptes ferrugineus* Brehm, Allg. Deutsche Naturh. Zeitung,  
1856, p. 464. (Java.)

Java (except eastern.)

***Micropternus brachyurus badius* (Bonaparte)**

*Meiglyptes badius* Bonaparte, Consp. Av., 1, 1850, p. 113.  
(Borneo.)

Borneo, North Notoena Islands.

GENUS *PICUS* LINNÉ

- Picus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. Type, by subsequent designation, *Picus viridis* Linné. (Swainson, Zool. Illustr., 1, 1820, text to pl. 4.)
- Gecinus* Boie, Isis von Oken, 1831, col. 542. Type, by subsequent designation, *G. viridis* (L.) = *Picus viridis* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 55.)
- Brachylophus* Swainson, Classif. Bds., 2, 1837, p. 308. Type, by subsequent designation, [*Picus*] *miniatus* [Forster] = *Picus mineaceus* Pennant. (Strickland, Ann. and Mag. Nat. Hist., 7, 1841, p. 38.)
- Chrysophlegma* Gould, Bds. Asia, pt. 1, 1850, pl. [6] and text [= 6, pl. 36 of volume.] Type, by monotypy, *Picus flavinucha* Gould.
- Callolophus* Salvadori, Ann. Mus. Civ. Genova, 5, 1874, p. 49. (= Uccelli di Borneo.) Type, by subsequent designation, *Picus malaccensis* Latham. (Blanford, Fauna Brit. India, Bds., 3, 1895, p. 29.)
- Cirropicus* Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 71. Type, by original designation, *Picus chlorolophus* Vieillot.
- cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 6-27.  
 Chasen, Bull. Raffles Mus., no. 11, 1935, p. 140-143.  
 Danis, Ois. et Rev. Franç. d'Orn. (n.s.), 7, 1937, p. 246-271.  
 Deignan, Bull. U.S. Nat. Mus., no. 186, 1945, p. 229-238.  
 Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 194-206.  
 Greenway, Auk, 57, 1940, p. 550-560.  
 Hand-list Jap. Bds., 3<sup>d</sup> & rev. ed., 1942, p. 86-87.  
 Hartert, Vög. pal. Fauna, 2, 1912, p. 889-899; 3, 1922, p. 2183-2185.  
 Hartert and Steinbacher, Vög. pal Fauna, Ergänzungs., Heft 4, 1935, p. 361-364.  
 Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 205-229.  
 La Touche, Handb. Bds. E. China, 2, 1931, p. 2-11.  
 Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 53-57.  
 Riley, Bull. U.S. Nat. Mus., no. 172, 1938, p. 210-222.  
 Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 70-82.  
 Witherby *et al*, Handb. Brit. Bds., 2, 1938, p. 277-281.

**Picus viridis pluvius** Hartert

*Picus viridis pluvius* Hartert, Brit. Bds., 5, 1911, p. 125. (Ninfield, Sussex, England.)

England and Wales.

**Picus viridis viridis** Linné

*Picus viridis* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (Europe, = Sweden *ex* Fn. Suec.)

Scandinavian Peninsula north to the limit of trees in Norway and to lat. 63° N. in Sweden, Russia north to the line Leningrad-Kostroma-Kazan, east to the Volga and south to the governments of Ekaterinoslav and Saratov.

**?Picus viridis frondium** (C. L. Brehm)

*Gecinus pinetorum* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 197. (Spruce forests of Germany; type from Renthendorf.) Not *Picus pinetorum* Brehm, *t. c.* p. 187.

*Gecinus frondium* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 197 (Deciduous forests [of Germany].)

*Gecinus virescens* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 199. (In winter in the German spruce forests and gardens.)

*Gecinus cuneirostris* C. L. Brehm, Allg. Deutsche Naturh. Zeit., Neue Folge, 2, 1856, p. 462. (Germany; type from Renthendorf.)

*Picus viridis minor* Fuchs, Orn. Monatschr., 40, 1915, p. 287. (Baden.)<sup>1</sup> Not *Picus minor* Linné.

*Picus viridis brehmi* Kleinschmidt, Orn. Germanica, 1919 (Beil. zu Falco, 15), p. 5. New name for *frondium*.

*Picus viridis pulcher* "Burg" Floericke, Orn. Beob., 24, 1926, p. 19. (Bernese Oberland, 2000 meters.)

Greater part of central Europe east to Poland, south to France, Switzerland, and northern Yugoslavia.

**Picus viridis pronus** Hartert

*Picus viridis pronus* Hartert, Brit. Bds., 5, 1911, p. 125. (Firenzola, near Florence, Italy.)

?*Picus viridis helveticus* Burg, Weidmann, 1921, no. 6, p. 7. (Jura.)

Southern Switzerland and Italy.

**Picus viridis dofleini** Stresemann

*Picus viridis dofleini* Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 5. (Izvor, Macedonia.)

<sup>1</sup> Aberration; specimen not collected.

Southeastern Europe from southern Yugoslavia and Bulgaria to Greece.

**Picus viridis romaniae** Stresemann

*Picus viridis romaniae* Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 5. (Bucharest, Romania.)  
Romania.

**Picus viridis sharpei** (Saunders)

*Gecinus sharpei* Saunders, Proc. Zool. Soc. London, 1872, p. 153. (Spain, south of the Sierra de la Guadarrama.)

*Gecinus viridis galliciensis* Seoane, Aves nuevas de Galicia "1870" (1894)<sup>1</sup>, p. 7. (Galicia.)

*Picus sharpei levantinus* Sagarra, Treb. Inst. Catalana Hist. Nat., 1, 1915, p. 182, pl. 3. (Catalonia.)

*Picus sharpei levantinus* aberr. *rhodopygia* Sagarra, Treb. Inst. Catalana Hist. Nat. 1, 1915, p. 183, pl. 12. (No locality.)

The Iberian Peninsula and extreme southwestern France.

**Picus viridis saundersi** (Taczanowski)

*Gecinus Saundersi* Taczanowski, Journ. f. Orn., 26, 1878, p. 349, 352. (Lagodechi, Caucasus.)

Caucasus.

**Picus viridis karelini** Brandt

*Picus Karelini* Brandt, Bull. Sci. Acad. Imp. Sci. St. Pétersbourg, 9, 1841, col. 12. (Astrabad, northern Iran.)

Northern Asia Minor (Ilgaz Mts.) and northern Iran.

**Picus viridis innominatus** (Sarudny and Loudon)

*Gecinus viridis innominatus* Sarudny and Loudon, Orn. Monatsb., 13, 1905, p. 49. (Gamdalkal, Iran.)

Oak forests of western and southwestern Iran.

**Picus viridis bampurensis** (Sarudny)

*Gecinus viridis bampurensis* Sarudny, Journ. f. Orn., 59, 1911, p. 240. (Sources of the Bampur River, Baluchistan.)

Poplar forests at the sources of the Bampur River, Baluchistan.

**Picus vaillantii** (Malherbe)

*Chloropicus Vaillantii* Malherbe, Mém. Acad. Roy. Metz, 28, 1846-47 (1847), p. 130. (Algeria.)

*Picus algirus* Levaillant jun., Expl. Sci. Algérie, Atlas Ois., pl. 8, ca 1849. (Algeria.)

<sup>1</sup> See Sherborn, Ann. and Mag. Nat. Hist. (6), 14, 1894, p. 154-155.



*Gecinus vaillantii koenigi* Erlanger, Journ. f. Orn., 47, 1899, p. 529, pl. 3. (Aïn-bou-Dries, southern slopes of the Atlas Mts., Tunisia.)

Forested portions of North Africa from Morocco to Tunisia.

**Picus awokera awokera** Temminck

*Picus awokera* Temminck, Pl. col., livr. 99, 1826, pl. 585. (Japan, i.e. Honshu.)

*Picus awokera etigo* Momiyama, Annot. Orn. Orient., 1, 1927, p. 56, Japanese text; p. 94, English text. (Sionomati-mura, Iwafuné-gun, Prov. Etigo, Hondo.)

Honshu.

**Picus awokera horii** Taka-Tsukasa

*Picus awokera horii* Taka-Tsukasa, Dobuts. Zasshi, 30, 1918, p. 442. (Kagoshima.) In Japanese.

*Picus awokera tosa* Momiyama, Annot. Orn. Orient., 1, 1927, p. 58, Japanese text; p. 95, English text. (Sagawa-mati, Takaoka-gun, Prov. Tosa, Shikoku.)

Shikoku and Kyushu.

**Picus awokera takatsukasae** Kuroda

*Picus awokera takatsukasae* Kuroda, Auk, 38, 1921, p. 576. (Anno, Tanegashima.)

Tanaga Shima and Yaku Shima.

**Picus squamatus flavirostris** (Menzbier)

*Gecinus flavirostris* Menzbier, Bull. Soc. Imp. Nat. Moscou, 62, 1886, pt. 1, p. 439. (Murghab, Transcaspia.)<sup>1</sup>

*Gecinus zarudnoi* Menzbier, Ibis, 1887, p. 301. New name for *Gecinus flavirostris* Menzbier.

Transcaspia to Afghanistan and Baluchistan.

**Picus squamatus squamatus** Vigors

*Picus squamatus* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (1831), p. 8. (Himalayas, restricted to Simla-Almora district by Ticehurst and Whistler, Ibis, 1924, p. 471.)<sup>2</sup>

The Himalayas from Kashmir and Gilgit to Sikkim.

<sup>1</sup> Replaces *Gecinus gorii* Hargitt, 1887, of Sharpe's Hand-list.

<sup>2</sup> In their paper in the Ibis, Ticehurst and Whistler make a blanket restriction of type locality to the Simla-Almora district of "all the Himalayan birds described by Vigors in the P.Z.S. 1830-31." It is very doubtful whether such a restriction could be made to apply to such species whose type locality had been otherwise fixed prior to the appearance of Ticehurst's and Whistler's article, and their failure themselves to list the species named by Vigors might nullify the entire effect of their intentions.

**Picus viridanus viridanus** Blyth

*Picus viridanus* Blyth, Journ. As. Soc. Bengal, 12, pt. 2, 1843, p. 1000. (Arakan.)

Burma (except northwestern) south to southwestern Siam.

**Picus viridanus weberi** (Müller)

*Gecinus Weberi* A. Müller, Journ. f. Orn., 30, 1882, p. 421. (Salanga = Junk Seylon.)

*Picus viridanus meridianus* Kloss, Ibis, 1926, p. 689. (Lamra, Trang, Peninsular Siam.)

Peninsular Siam south over the Malay Peninsula to Perlis and Patani.

**Picus vittatus eisenhoferi** Gyldenstolpe

*Picus vittatus eisenhoferi* Gyldenstolpe, Orn. Monatsb., 24, 1916, p. 28. (Pa Hing, northern Siam.)

Eastern Burma, South Shan States, Laos and Annam, south to Siam, Cambodia and Cochinchina.

**Picus vittatus connectens** (Robinson and Kloss)

*Gecinus vittatus connectens* Robinson and Kloss, Bull. Brit. Orn. Cl., 40, 1919, p. 13. (Langkawi Island.)

Langkawi Island, off the southwest coast of the Malay Peninsula.

**Picus vittatus vittatus** Vieillot

*Picus vittatus* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 91. (No locality; restricted to Java by Hartert, Nov. Zool., 9, 1902, p. 434; further restricted to western Java by Stresemann, *infra*, p. 74.)

Malay States; Sumatra; Lingga Archipelago; western Java.

**Picus vittatus limitans** Stresemann

*Picus vittatus limitans* Stresemann, Arch. f. Naturg., 87, Abth. A, 1921, Heft 7, p. 74. (East Kangean Island.)

Eastern Java, Bali, Kangean Islands.

**Picus xanthopygaeus** (Gray and Gray)

*Picus striolatus* Blyth, Journ. As. Soc. Bengal, 12, pt. 2, 1843, p. 1000. (Himalaya and central India.) Not *Picus striolatus* Lesson, 1831, nor of MacGillivray, 1840.

*Brachylophus xanthopygaeus* J. E. and G. R. Gray, Cat. Spec. Mamms. Bds. Nepal and Thibet, 1846, p. 117, *ex* Hodgson in J. E. Gray, Zool. Misc., 1844; *nomen nudum*, quoted in synonymy of *Gecinus striolatus* (Blyth), preoccupied.

*Picus myrmecophoneus* Stresemann, Verh. Orn. Ges. Bayern, 14, 1920, p. 289. New name for *Picus striolatus* Blyth, preoccupied.

*Picus vittatus dehræ* Stuart Baker, Bull. Brit. Orn. Cl., 46, 1926, p. 69. (Dehra Dun, India.)

*Picus vittatus dawae* Van Tyne and Koelz, Occ. Papers Mus. Zool. Univ. Michigan, no. 334, 1936, p. 3. (Bhadwar, 2000 feet, Kangra district, Punjab, India.)

Garhwal, Nepal, Sikkim and eastern Assam, south to southern India, Burma, southwestern Siam, Cambodia and CochinChina; Ceylon.

### ***Picus canus canus* Gmelin**

*Picus canus* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 434. (Norway, Russia, Siberia and Switzerland; restricted type locality, Norway *ex* Brisson.)

*Picus viridi-canus* Bechstein, Gemein. Naturg. Deutschl., ed 2, 2, 1805, p. 1017. New name for *Picus canus*.

*Picus canus meridionalis* Burg, Weidmann, 1921, no. 10, p. 7. (Engadine.) Not *Picus meridionalis* Swainson, 1831, nor of Brehm, 1855.

*Picus canus dzieduszyckii* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 4, 1925, p. 75. (Lwów, southern Poland.)

Norway, Germany and France, east to the Urals and south to the Alps, the Balkan Peninsula (absent from Greece) and the Caucasus.

### ***Picus canus perspicuus* Gengler**

*Picus canus perspicuus* Gengler, Balkanvögel, 1920, p. 137, (Nevscha, Bulgaria.)

*Picus canus caesaris* Steinbacher, Orn. Monatsb., 46, 1938, p. 25. (Bailowo, near Sofia, Bulgaria.)

Bulgaria and perhaps adjacent portions of Yugoslavia.

### ***Picus canus biederiemanni* Hesse**

*Picus canus biederiemanni* Hesse, Orn. Monatsb., 19, 1911, p. 183. (Altai.)

The Altai, Sayan Mts., central Siberia, Transbaikalia, and the Kentei Mts. in northern Mongolia.

### ***Picus canus jessoensis* Stejneger**

*Picus canus jessoensis* Stejneger, Proc. U. S. Nat. Mus., 9, 1886, p. 106. (Sapporo, Hokkaido.)

*Picus canus perpallidus* Stejneger, Proc. U. S. Nat. Mus., 9, 1886, p. 107, note. (Sidemi, Ussuriland.)

*Gecinus canus griseoviridis* A. H. Clark, Proc. U. S. Nat. Mus., 32, 1907, p. 473. (Seoul, Korea.)

Manchuria, Ussuriland and Korea; Island of Hokkaido.

? *Picus canus zimmermanni* Reichenow

*Picus canus zimmermanni* Reichenow, Orn. Monatsb., 11, 1903, p. 86. (Tsingtao, Shantung.)

Northeastern China in provinces of Hopeh and Shantung; doubtfully distinct from *P. c. jessoensis*.

*Picus canus kogo* (Bianchi)

*Gecinus guerini kogo* Bianchi, Bull. Brit. Orn. Cl., 16, 1906, p. 69. (Bar-tschou River, affluent of the Nomu-tschu, tributary of the Mekong, Kham country,<sup>1</sup> Tibet.)

*Picus canus stresemanni* Yen, Orn. Monatsb., 41, 1933, p. 17. (Sining-fu, Kansu.)

Western China in provinces of Kansu and Sikang.

*Picus canus setschuanus* Hesse

*Picus canus setschuanus* Hesse, Orn. Monatsb., 19, 1911, p. 193. (Tatsienlu,<sup>2</sup> Szechwan.)

*Gecinus canus jacobsii* La Touche, Bull. Brit. Orn. Cl., 40, 1919, p. 50. (Chang-yang-hsien, Hupeh.)

*Picus canus yunnanensis* La Touche, Bull. Brit. Orn. Cl., 43, 1922, p. 44. (Milatj, Yunnan.)

China in provinces of Sikang, Szechwan, Hupeh, Kweichow and eastern Yunnan.

*Picus canus guerini* (Malherbe)

*Chloropicus Guerini* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 539. (China, = Ningpo and Shanghai, *vide* Danis, *antea*, p. 260.)

Eastern China in provinces of Kiangsu, Anhwei and Chekiang.

*Picus canus sobrinus* nomen nov.

*Picus canus ricketti* Stuart Baker, Ibis, 1919, p. 187. (Fukien, China.) Not *Picus flavinucha ricketti* (Styan), 1898.

Southeastern China in provinces of Hunan, Fukien, Kwangtung and Kwangsi; probably also Kiangsi; greater part of Tonkin at lower elevations.

<sup>1</sup> Now in the Province of Sikang, China.

<sup>2</sup> According to the most recent maps this locality is now called Kangting and is situated in the Province of Sikang.

**Picus canus tancolo** (Gould)

*Gecinus tancolo* Gould, Proc. Zool. Soc. London, 1862, p. 283.  
(Formosa.)

*Gecinus hainanus* Ogilvie-Grant, Ibis, 1899, p. 584. (Lower  
slopes of Five-finger Mts., Hainan.)

Islands of Formosa and Hainan.

**Picus canus sordidior** (Rippon)

*Gecinus sordidior* Rippon, Bull. Brit. Orn. Cl., 19, 1906, p. 32.  
(Yangtze River, western Yunnan.)

Northwestern Yunnan.

**Picus canus sanguiniceps** Stuart Baker

*Picus occipitalis* Vigors, Proc. Comm. Zool. Soc. London, pt. 1,  
1830-31 (1831), p. 8. (Himalayas.)<sup>1</sup> Not *Picus occipitalis*  
Valenciennes, 1826.

*Picus barbatus* J. E. Gray, in Hardwicke's Illustr. Indian Zool.,  
1, pt. 6, 1831, pl. 31, f. 2. (India.) Not *Picus barbatus*  
Wylkes, 1825.

*Picus canus sanguiniceps* Stuart Baker, Bull. Brit. Orn. Cl., 46,  
1926, p. 70. New name for *Picus occipitalis* Vigors, pre-  
occupied.

Northwestern Himalayas.

**Picus canus gyldenstolpei** Stuart Baker

*Picus canus gyldenstolpei* Stuart Baker, Bull. Brit. Orn. Cl., 39,  
1918, p. 19. (Sadiya, Lakhimpur, Assam.)

Eastern Nepal, Sikkim and Assam, south to Chittagong, Mani-  
pur and the upper Chindwin.

**Picus canus hessei** Gyldenstolpe

*Picus canus hessei* Gyldenstolpe, Orn. Monatsb., 24, 1916, p. 28.  
(Pak Koh and Denchai, northern Siam.)

*Gecinus canus microrhynchus* Robinson and Kloss, Bull. Brit.  
Orn. Cl., 40, 1919, p. 12. (Koh Lak, Rajburi, southwestern  
Siam.)

Burma, Laos and Tonkin (Laichau region), south throughout  
Siam (except Peninsular Siam), and Indochina to Cochinchina.

**Picus canus robinsoni** (Ogilvie-Grant)

*Gecinus robinsoni* Ogilvie-Grant, Bull. Brit. Orn. Cl., 19, 1906,  
p. 11. (Gunong Tahan, 5300-6000 feet, Pahang, Malay  
States.)

Mountains of the Malay States.

<sup>1</sup> See note under *Picus squamatus squamatus*, p. 133.



**Picus canus dedemi** (van Oort)

*Gecinus dedemi* van Oort, Notes Leyden Mus., 34, 1911, p. 59.  
(Volcano Sibajak, 1450 meters, Battack Mts., northeastern Sumatra.)

Mountains of Sumatra between 850 and 1600 meters.

**Picus rabieri** (Oustalet)

*Gecinus Rabieri* Oustalet, Bull. Mus. Hist. Nat. Paris, 4, 1898, p. 12. (Chobon, Tonkin.)

*Gecinus rubrippectus* Kuroda, Annot. Zool. Japon., 9, 1917, p. 228. (Yenbai, Tonkin.)

*Picus rubricollaris* Stuart Baker, Bull. Brit. Orn. Cl., 41, 1920, p. 10. (Ban Hoi Mak, Camp no. 39, "Siam" [= Laos], and Muongliep, Laos.)

Tonkin, Laos and Annam.

**Picus erythropygius nigrigenis** (Hume)

*Gecinus nigrigenis* Hume, Proc. As. Soc. Bengal, 5, May, 1874, p. 106. (No locality); Stray Feathers, 2, June, 1874, p. 444. ("Pakchan, Kollidoo, Darguin, and other parts of the Salween and neighboring districts of the Tenasserim provinces"; type from Pakchan Estuary.)

Burma from Toungoo and Karenni to southern Tenasserim and southern Siam.

**Picus erythropygius erythropygius** (Elliot)

*Gecinus erythropygius* Elliot, Nouv. Arch. du Mus. Hist. Nat. [Paris], 1, 1865, Bull., p. 76, pl. 3. (Cochinchina.)

Bas-Laos, southern Annam, Cambodia, Cochinchina, eastern and southeastern Siam.

**Picus flavinucha flavinucha** Gould

*Picus flavinucha* Gould, Proc. Zool. Soc. London, pt. 1, 1833 (1834), p. 120. (Himalayas and the lower regions of India.)

The Himalayas from Mussoorie to eastern Assam and south to Burma and the southern Shan States.

**Picus flavinucha archon** Deignan

*Chrysophlegma flavinucha annamensis* Delacour and Jabouille, Bull. Brit. Orn. Cl., 48, 1928, p. 130. (Khébon, 150 meters, Annam.) Not *Picus chlorolophus annamensis* Meinertzhagen, 1924.

*Picus flavinucha archon* Deignan, Bull. U. S. Nat. Mus., no. 186, 1945, p. 238. New name for *Chrysophlegma flavinucha annamensis* Delacour and Jabouille, preoccupied.

Northwestern Tonkin, Laos, Annam and adjacent parts of northern Siam.

**Picus flavinucha styani** (Ogilvie-Grant)

*Chrysophlegma styani* Ogilvie-Grant, Ibis, 1899, p. 585. (Lower slopes of Five-finger Mts., Hainan.)

Kwangsi and eastern Tonkin; Island of Hainan.

**Picus flavinucha lylei** (Kloss)

*Chrysophlegma flavinucha lylei* Kloss, Ibis, 1918, p. 110. (Koh Lak, southwestern Siam.)

Northern, western and southwestern Siam.

**Picus flavinucha pierrei** Oustalet

*Picus (Chrysophlegma) Pierrei* Oustalet, Le Naturaliste, 11, 1889, p. 44, 45. (Cochinchina.)

Central, eastern and southeastern Siam, Cambodia and Cochinchina.

**Picus flavinucha wrayi** (Sharpe)

*Chrysophlegma wrayi* Sharpe, Proc. Zool. Soc. London, 1888, p. 279. (Gunong Batu Puteh, 3400-4000 feet, Perak.)

Mountains of Perak.

**Picus flavinucha ricketti** (Styan)

*Chrysophlegma ricketti* Styan, Bull. Brit. Orn. Cl., 7, 1898, p. xl. (Ching Ting, Fukien.)

Central Fukien.

**Picus flavinucha mystacalis** (Salvadori)

*Chrysophlegma mystacalis* Salvadori, Ann. Mus. Civ. Genova, 14, 1879, p. 182. (Mt. Singalan, Sumatra.)

Mountains of Sumatra between 2500 and 5000 feet, from Mt. Leuser to near the end of Toba Lake.

**Picus flavinucha korinchi** (Chasen)

*Chrysophlegma flavinucha korinchi* Chasen, Treubia, 17, 1940, p. 261. (Soengaikoem-bang, 4500 feet, Sumatra.)

Mountains of southwestern Sumatra from Mt. Korinchi [or Kerintji] to the mountains of Palembang.

**Picus puniceus continentis** (Robinson and Kloss)

*Brachylophus puniceus continentis* Robinson and Kloss, Journ. Fed. Malay States Mus., 10, 1921, p. 204. (Tapli, Pakchan Estuary, Renong, northern Malay Peninsula.)

Southern Tenasserim, southward over the entire Malay Peninsula.

**Picus puniceus observandus** (Hartert)

*Gecinus puniceus observandus* Hartert, Nov. Zool., 3, 1896, p. 542. (Malacca, Borneo and Sumatra; type from Deli, Sumatra.)

Sumatra, Bangka and Borneo.

**Picus puniceus soligae** deSchauensee and Ripley

*Picus puniceus soligae* deSchauensee and Ripley, Proc. Acad. Nat. Sci. Philadelphia, 91, 1940, p. 405. (Soliga, 1000 feet, Nias Island.)

Nias Island.

**Picus puniceus puniceus** Horsfield

*Picus puniceus* Horsfield, Trans. Linn. Soc. London, 13, pt. 1, 1821, p. 176. (Java.)

*Gecinus puniceus typicus* Hartert, Nov. Zool., 3, 1896, p. 542. (Java.)

Java.

**Picus chlorolophus simlae** Meinertzhagen

*Picus chlorolophus simlae* R. Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 54. (Dehra Dun, northwestern India.)

Northwestern Himalayas from Mussoorie and Murree to Garhwal.

**Picus chlorolophus chlorolophus** Vieillot

*Picus chlorolophus* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 78. (Bengal.)

Sikkim, Bhutan, Assam and southwestern Yunnan, south to Bengal, the hill tracts of northern Burma and the northern Shan States. The specimens recorded under this name from Kwangsi by Yen (Ois. (n.s.), 7, 1937, p. 549.) should be reexamined.

**Picus chlorolophus chlorigaster** Jerdon

*Picus chlorigaster* Jerdon, Madras Journ. Lit. Sci., 13, 1844, pt. 2, p. 139. (Southern India.)

Indian Peninsula.

**Picus chlorolophus wellsi** Meinertzhagen

*Picus chlorolophus wellsi* R. Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 56. (Ceylon.)

Ceylon, below 5000 feet.

**Picus chlorolophus chlorolophoides** (Gyldenstolpe)

*Brachylophus chlorolophoides* Gyldenstolpe, Orn. Monatsb., 24, 1916, p. 29. (Koon Tan, northern Siam.)

*Picus chlorolophus burmæ* R. Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 54. (Pegu Town, Burma.)

Burma south of the Chin and Kachin Hills to Tenasserim and northern Siam.

***Picus chlorolophus citrinocristatus* (Rickett)**

*Gecinus citrinocristatus* Rickett, Bull. Brit. Orn. Cl., 11, 1901, p. 46. (Yamakan, Fukien.)

Southeastern China in Province of Fukien; Tonkin, northern Annam.

***Picus chlorolophus longipennis* (Hartert)**

*Gecinus chlorigaster longipennis* Hartert, Nov. Zool., 17, 1910, p. 222. (Mt. Wuchi, Hainan.)

Island of Hainan.

***Picus chlorolophus laotianus* Delacour**

*Picus chlorolophus laotianus* Delacour, Bull. Brit. Orn. Cl., 47, 1926, p. 12. (Xieng-Khouang, Laos.)

Northern Laos and adjacent parts of northern Siam.

***Picus chlorolophus annamensis* Meinertzhagen**

*Picus chlorolophus annamensis* R. Meinertzhagen, Bull. Brit. Orn. Cl., 44, 1924, p. 57. (Daban, southern Annam.)

*Cirropicus chlorolophus conjunctus* Riley, Proc. Biol. Soc. Washington, 48, 1935, p. 53. (Kao Sabab, southeastern Siam.)

Central and southern Annam, southern Laos, eastern and southeastern Siam.

***Picus chlorolophus krempfi* Delacour and Jabouille**

*Picus chlorolophus harmandi* Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 170. (Phurieng, Cochinchina.) Not *Picus harmandi* Oustalet, 1879.

*Picus chlorolophus krempfi* Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 201. New name for *Picus chlorolophus harmandi* Delacour, preoccupied.

Cochinchina.

***Picus chlorolophus rodgeri* (Hartert and Butler)**

*Gecinus rodgeri* Hartert and Butler, Nov. Zool., 5, 1898, p. 508. (Gunong Ijau, 4000 feet, Perak.)

Mountains of Perak.

***Picus chlorolophus vanheysti* (Robinson and Kloss)**

*Brachylophus chlorolophus vanheysti* Robinson and Kloss, Journ.

Str. Br. Roy. As. Soc., no. 80, 1919, p. 97. (Bandar Baroe ♂ and Gunong Talaman ♀, northeastern Sumatra.)

Mountains of Sumatra.

**Picus mentalis humii** (Hargitt)

*Chrysophlegma humii* Hargitt, Ibis, 1889, p. 231. (Malacca ♂ and Klang, Salangor ♀.)

Southern Tenasserim southward over the Malay Peninsula; Sumatra, Bangka, western Borneo.

**Picus mentalis mentalis** Temminck

*Picus mentalis* Temminck, Pl. col., livr. 65, 1825, pl. 384. (Java.)

Java.

**Picus mentalis saba** (Chasen and Kloss)

*Chrysophlegma mentale saba* Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungs. 2, p. 111. (Samawang River, near Sandakan, British North Borneo.)

Southern and eastern Borneo.

**Picus mineaceus perlutus** (Kloss)

*Callolophus mineatus perlutus* Kloss, Ibis, 1918, p. 110. Koh Lak, Siam.)

Southern Tenasserim and southwestern Siam to the Pakchan Estuary.

**Picus mineaceus malaccensis** Latham

*Picus malaccensis* Latham, Index Orn., 1, 1790, p. 241. (Malacca.)

Malay States from the Pakchan Estuary southward; Sumatra, Bangka, Billiton; northwestern Borneo on the lower slopes of Mt. Kina Balu.

**Picus mineaceus niasensis** (Büttikofer)

*Chrysophlegma niasense* Büttikofer, Notes Leyden Mus., 18, 1897, p. 169. (Nias Island.)

Nias Island.

**Picus mineaceus mineaceus** Pennant

*Picus mineaceus* Pennant, Indian Zool., 1769, p. 4, pl. 4. (Highlands of Java.)

*Picus miniatus* J. R. Forster, Indische Zool., 1781, p. 14, pl. 4. (Java.)

Western and central Java.



**Picus mineaceus dayak** (Stresemann)

*Callolophus miniatus dayak* Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 82. (Landak, Borneo.)

Borneo.

GENUS **DINOPIUM** RAFINESQUE

*Dinopium* Rafinesque, Principes Fondamentaux de Somnologie, 1814, p. 2 of cover.<sup>1</sup> Type, by monotypy, *Dinopium (Picoides) erythronotus* Rafinesque, which is based on "le picoide à dos rouge", Bull. des Sciences de Soc. Philom., Paris, 3, 1803, p. 146 = *Picus javanensis* Ljungh.

*Tiga* Kaup, Thierreich, 2, 1836, Th. 1, p. 37. Type, by monotypy and tautonymy, *Picus tiga* Horsfield = *Picus javanensis* Ljungh.

*Brachypternus* Strickland, Ann. and Mag. Nat. Hist., 7, 1841, p. 35. Type, by subsequent designation, *B. aurantius* (L). Strickl. = *Picus benghalensis* Linné. (G. R. Gray, List. Gen. Bds., 1841, p. 71.)

*Chloropicoides* Malherbe, Bull. Soc. Hist. Nat. Dépt. Moselle, 5<sup>e</sup> cahier, 1848-1849 (1849), p. 26. Type, by monotypy, *Picus rafflesii* Vigors.

*Gauropicoides* Malherbe, Monogr. Piciées 1, 1861, intr., p. liii. Type, by monotypy, [*Picus*] *rafflesii* [Vigors.]

*Mesospilus* Sundevall, Consp. Av. Picinarum, 1866, p. 116. Type, by monotypy, *Picus rafflesii* Vigors.

*Dinopicus* Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. xiii, 72. Emendation of (or *lapsus* for) *Dinopium* Rafinesque.

cf. Stuart Baker, Ibis, 1919, p. 205-209.

—, Fauna Brit. India, ed. 2, Bds. 4, 1927, p. 66-77.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 144; 148-149.

Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 89-94.

Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 292-294.

**Dinopium benghalense benghalense** (Linné)

*Picus benghalensis* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (Bengal.)

<sup>1</sup> This name, usually cited from Rafinesque's 'Précis de Decouv. somiologiques', 1814, p. 2 of cover, does not appear in the copy available to me, but occurs as cited in the 'Principes' a copy of which has also been examined in this connection. See also Richmond, Proc. U.S. Nat. Mus., 35, 1908, p. 606.

*Brachypternus benghalensis palliolatus* Van Tyne and Koelz,  
Occ. Papers Mus. Zool. Univ. Michigan, no. 334, 1936, p. 2.  
(Bhadwar, 2000 feet, Kangra district, Punjab.)

Upper Punjab, United Provinces, Bihar and Assam, south to  
Central India, Orissa and Bengal.

**Dinopium benghalense dilutum** (Blyth)

*Br[achypternus] aurantius* var. *Br[achypternus] dilutus* Blyth,  
Cat. Bds. Mus. As. Soc., 1849, p. 56. (Sind.) Name for the  
species of *Brachypternus* described by Blyth in Journ. As. Soc.  
Bengal, 14, pt. 2, 1845, p. 550.

Baluchistan, Sind and Mt. Aboo, intergrading with *B. d. benghalense* in the lower Punjab.

**Dinopium benghalense puncticolle** (Malherbe)

*Picus (Brachypternopicus) puncticollis* Malherbe, Rev. Zool.,  
1845, p. 404. (India, = slopes of the Nilgiri Hills.)

Southern India (except area occupied by *D. b. tehminae*), north  
to the Godavery River; intergrades with *D. b. benghalense* in  
eastern Hyderabad.

**Dinopium benghalense tehminae** (Whistler and Kinnear)

*Brachypternus benghalensis tehminae* Whistler and Kinnear,  
Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 293. (Rajam-  
para, 1350 feet, Panthalam Hills, India.)

*Brachypternus benghalensis woodi* Koelz, Proc. Biol. Soc. Wash-  
ington, 52, 1939, p. 78. (Jagalbed, Bombay Presidency.)

West coast of India from Malabar to Travancore.

**Dinopium benghalense jaffnense** (Whistler)

*Picus ceylonus* Auct. not of Cuvier.

*Brachypternus benghalensis jaffnensis* Whistler, Spolia Zey-  
lanica, 23, 1944, p. 206. (Illuppaikkadavai, Ceylon.)

Low, arid portions of northern Ceylon.

**Dinopium benghalense erithronothon** (Vieillot)

*Picus erithronothos* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818,  
p. 73. (Java, error = Ceylon.)

*Picus neglectus* Wagler, Syst. Av., 1827, *Picus*, sp. 99. (Ceylon  
and Java.)

*Picus ceylonus* Cuvier, Règne Anim., Nouv. éd., 1, 1829, p. 451,  
based on "Nat. Forsch. 14, pl. 1."

*Brachypternus intermedius* Legge, Stray Feath., 4, 1876, p. 242.  
(Ceylon.) Not *Picus intermedius* Blyth, 1845, which =  
*Dinopium javanense intermedium* Blyth.

Southern half of Ceylon.

**Dinopium shorii** (Vigors)

*Picus Shorii* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (1832), p. 175. (Himalayas.)<sup>1</sup>

The Himalayas from Nepal through Sikkim, northern Assam, Chin and Kachin Hills, northern Arakan Hills and the Burmese Hill ranges south to Thayetmyo.

**Dinopium javanense malabaricum** Whistler and Kinnear

*Dinopium javanense malabaricum* Whistler and Kinnear, Journ. Bombay Nat. Hist. Soc., 37, 1934, p. 294. (Manantoddy Wynaad, India.) New name for *Picus rubropygialis* auct., not of Malherbe, 1845.

West side of the Indian Peninsula from North Kanara to Travancore.

**Dinopium javanense intermedium** (Blyth)

*Picus (Tiga) intermedius* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845, p. 193. (Nepal, Assam, Sylhet, Tipperah, and Tenasserim = Arakan, *fide* Stuart Baker, Ibis, 1919, p. 208, and restricted to Ramree Island by Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, 5, 1923, p. 187.)

Cachar and hills south of the Brahmaputra, Manipur, Burma north of lat. 10°, Shan States, Siam, Tonkin, Laos, Annam, Cochin-China and Cambodia.

**Dinopium javanense javanense** (Ljungh)

*Picus javanensis* Ljungh, K. Vet. Akad. Nya Handl., 18, 1797, p. 134, pl. 6. (Java.)

*Dinopium (Picoïdes) erythronotus* Rafinesque, Principes Fondamentaux de Sornologie, 1814, p. 2 of cover. (Java, based on le picoïde à dos rouge" Rafinesque, Bull. des Science de Soc. Philom. Paris, 3, 1803, p. 146.)

*Picus (Brachypternopicus) Rubropygialis* Malherbe, Rev. Zool., 1845, p. 400. (Bengal = "East Indies" *fide* Whistler and Kinnear, *antea* p. 294.)

*Dinopium javanense palmarum* Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 91. (Fort de Kock, Sumatra.)

Malay Peninsula, Sumatra, Riouw Archipelago, western and central Java.

**Dinopium javanense exsul** (Hartert)

*Tiga javanensis exsul* Hartert, Nov. Zool., 8, 1901, p. 51. (Bali.)

Eastern Java and Bali.

<sup>1</sup> See note under *Picus squamatus squamatus*, p. 133.

**Dinopium javanense borneonense** (Dubois)

*Tiga borneonensis* Dubois, Proc. Zool. Soc. London, 1897, p. 782. (Borneo.)

Borneo (except northeastern).

**Dinopium javanense raveni** Riley

*Dinopium raveni* Riley, Proc. Biol. Soc. Washington, 40, 1927, p. 139. (Pulo Eraban, off the northeast coast of Borneo.)

Northeastern Borneo and adjacent small islands.

**Dinopium javanense everetti** (Tweeddale)

*Tiga everetti* Tweeddale, Proc. Zool. Soc. London, 1878, p. 612, pl. 37. (Puerto Princesa, Paláwan.)

Philippine Islands: Busuanga, Culió, Paláwan, Balabac.

**Dinopium rafflesii peninsulare** (Hesse)

*Gauropicoides rafflesii peninsularis* Hesse, Orn. Monatsb., 19, 1911, p. 192. (Malacca.)

Tenasserim and southwestern Siam, southward over the Malay Peninsula.

**Dinopium rafflesii rafflesii** (Vigors and Horsfield)

*Picus Rafflesii* Anonymous [= Vigors and Horsfield] in Lady Sophia Raffles, Mem. Life and Public Services Sir T. S. Raffles, 1830, p. 669. (No locality = Sumatra.)

Sumatra and Bangka.

**Dinopium rafflesii dulitense** Delacour

*Gauropicoides rafflesii borneonensis* Hesse, Orn. Monatsb., 19, 1911, p. 192. (Mt. Dulit, Sarawak, Borneo.) Not *Tiga borneonensis* Dubois, 1897.

*Dinopium rafflesii dulitense* Delacour, Zoologica, 31, 1946, p. 2. New name for *Gauropicoides rafflesii borneonensis* Hesse, preoccupied.

Borneo.

GENUS **GE CINULUS** BLYTH

*Gecinulus* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845, p. 192. Type, by monotypy, *Picus grantia* McClelland.

cf. Stuart Baker, Fauna Brit. India, ed 2, Bds., 4, 1927, p. 27-29. Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 207-208.

LaTouche, Handb. Bds. E. China, 2, pt. 1, 1931, p. 11-12.

**Gecinulus grantia grantia** (McClelland)

*Picus (Chrysonotus) Grantia* McClelland, Proc. Zool. Soc. London, pt. 7, 1839 (1840), p. 165. (Assam.)

Nepal and Sikkim to eastern Assam and south to eastern Bengal and the Chin Hills.

**Gecinulus grantia indochinensis** Delacour

*Gecinulus grantia indochinensis* Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 154. (Backan, northeastern Tonkin.)

Tonkin, Laos and Annam.

**Gecinulus grantia viridanus** Slater

*Gecinulus viridanus* Slater, Ibis, 1897, p. 176. (Kuatun, Fukien.)

Mountains of central and western Fukien and northern Kwangtung.

**Gecinulus viridis viridis** Blyth

*Gecinulus viridis* Blyth, Journ. As. Soc. Bengal, 31, 1862, p. 341. (Toungoo.)

Central Burma and the Shan States to southwestern, central and eastern Siam.

**Gecinulus viridis robinsoni** Kloss

*Gecinulus viridis robinsoni* Kloss, Ibis, 1918, p. 105. (Mts. of the Selangor-Pahang boundary, Malay States.)

The Malay Peninsula from Perak to Salangor, southeastern Siam (?); recorded from Muongliep, Haut Laos (1 spec).

GENUS **MEIGLYPTES** SWAINSON

*Meiglyptes* Swainson, Classif. Bds., 2, 1837, p. 309. Type, by monotypy, *Picus poicilophus* Temminck = *Picus tristis* Horsfield.

cf. Chasen, Bull. Raffles Mus., no. 11, 1935, p. 146-147.

Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 191-195.

Mayr, Bull. Raffles Mus., no. 14, 1938, p. 31-32.

Riley, Bull. U.S. Nat. Mus., no. 172, 1938, p. 227-230.

Ripley, Bull. Mus. Comp. Zoöl., 94, 1944, p. 367-369.

Stresemann, Arch. Naturg., 87, Abth. A, 1921, Heft 7, p. 99-102 (excl. *brachyurus*).

**Meiglyptes tristis grammithorax** (Malherbe)

*Phaiopicus grammithorax* Malherbe, Monogr. Pucidées, 2, 1862, p. 12; 3, pl. 48, f. 4, 5, 6. (Malay Peninsula and Soenda Islands.)



Southern Tenasserim and southwestern Siam southward over the Malay Peninsula.

**Meiglyptes tristis micropterus** Hesse

*Meiglyptes* [sic] *tristis micropterus* Hesse, Orn. Monatsb., 19, 1911, p. 182. (Borneo, Great Natuna Island; type from Mt. Dulit, 1000 feet, Borneo.)

Sumatra, Borneo, North Bornean Islands, North Natoena Islands.

**?Meiglyptes tristis microterus** Oberholser

*Meiglyptes grammithorax microterus* Oberholser, Smiths. Misc. Coll., 60, 1912, no. 7, p. 6. (Telok Bluku, Nias Island.)

Nias Island; doubtfully distinct from *M. t. grammithorax*.

**Meiglyptes tristis tristis** (Horsfield)

*Picus tristis* Horsfield, Trans. Linn. Soc. London, 13, pt. 1, 1821, p. 177. (Java.)

Java.

**Meiglyptes jugularis** (Blyth)

*Picus* (*Meiglyptes*) *jugularis* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845, p. 195. (Arakan and Tenasserim.)

Arakan, Burma, Tenasserim, Siam, Laos, southern Annam, Cambodia and Cochinchina.

**Meiglyptes tukki tukki** (Lesson)

*Picus tukki* Lesson, Rev. Zool., 1839, p. 167. (Sumatra.)

Malay Peninsula, Sumatra, Bangka, Billiton, Borneo (except southern).

**Meiglyptes tukki azaleus** Oberholser

*Meiglyptes tukki azaleus* Oberholser, Bull. U.S. Nat. Mus., no. 159, 1932, p. 46. (Bunguran Island, North Natuna Islands.)

North Natoena Islands.

**Meiglyptes tukki pulonis** Chasen and Kloss.

*Meiglyptes tukki pulonis* Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungs. 2, p. 112. (Banguey Island.)

Banguey [or Banggi] Island, off the northern tip of Borneo.

**Meiglyptes tukki percnerpes** Oberholser

*Meiglyptes tukki percnerpes* Oberholser, Journ. Washington Acad. Sci., 14, 1924, p. 301. (Batu Jurong, southwestern Borneo.)

Southern Borneo.

**Meiglyptes tukki calceuticus** Oberholser

*Meiglyptes tukki calceuticus* Oberholser, Smiths. Misc. Coll., 60, 1912, no. 7, p. 6. (Pulo Tuanku, Banjak Islands.)

Banjak Islands.

**Meiglyptes tukki infuscatus** Salvadori

*Miglyptes* [sic] *infuscatus* Salvadori, Ann. Mus. Civ. Genova, 24, 1887, p. 531. (Nias Island.)

*Meiglyptes tukki hylodromus* Oberholser, Journ. Washington Acad. Sci., 14, 1924, p. 301. (Mojeia River, Nias Island.)

Nias Island.

**Meiglyptes tukki batu** deSchauensee and Ripley

*Meiglyptes tukki batu* deSchauensee and Ripley, Proc. Acad. Nat. Sci. Philadelphia, 91, 1940, p. 406. (Pulo Tana Massa, Batu Islands.)

Batu Islands.

GENUS **MULLERIPICUS** BONAPARTE<sup>1</sup>

*Hemilophus a Mulleripicus* Bonaparte, Ateneo Italiano, 2, May, 1854, p. 122. (Consp. Vol. Zygodact., p. 7.) Type, by monotypy, *Picus pulverulentus* Temminck.

*Hemilophus b Lichtensteinipicus* Bonaparte, Ateneo Italiano, 2, May, 1854, p. 122. (Consp. Vol. Zygodact., p. 7.) Type, by monotypy, *Picus modestus* Vigors = *Picus funebris* Valenciennes.

*Hemilophus a Alophonerpes* Reichenbach, Handb. spec. Orn., cont. xii, Oct., 1854, Scansoriae c Picinae, p. 385. Type, by subsequent designation, *Picus pulverulentus* Temminck (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 494.)

cf. Hesse, Mitt. Zool. Mus. Berlin, 6, 1912, p. 230–233.

McGregor, Man. Phil. Bds., pt. 1, 1909, p. 403–405.

Stresemann, Journ. f. Orn., 88, 1940, p. 390–392.

**Mulleripicus pulverulentus harterti** Hesse

*Mülleripicus pulverulentus harterti* Hesse, Orn. Monatsb., 19, 1911, p. 182. (Assam, and Burma to Tenasserim; the types listed by Hesse, 1912, p. 232, are from Pya, Upper Chindwin.)

Northern India from the United Provinces to Assam, Burma, northern Tenasserim, Siam and Indochina (Laos, Annam, Cochinchina, Cambodia).

<sup>1</sup>*Hemilophus* Swainson, 1837, the oldest name for this genus is preoccupied by *Hemilophus* Audinet-Serville, 1835, Coleoptera.

**Mulleripicus pulverulentus pulverulentus** (Temminck)

*Picus pulverulentus* Temminck, Pl. col., livr. 66, 1826, pl. 389.  
(Java and Sumatra.)

Malay Peninsula, Sumatra, Riouw Archipelago, Java (but not eastern), Borneo, North Notoena Islands; Palawan and Balabac.

**Mulleripicus funebris** (Valenciennes)

*Picus funebris* Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 179. (Philippine Islands.)

Philippine Islands: Catanduanes, Luzon, Marinduque.

**Mulleripicus fuliginosus** Tweeddale

*Mulleripicus fuliginosus* Tweeddale, Ann. and Mag. Nat. Hist. (4), 20, 1877, p. 534. (Surigao, Mindanao, Philippine Islands.)

Philippine Islands: Samar, Leyte, Mindanao.

**Mulleripicus fulvus fulvus** (Quoy and Gaimard)

*Picus fulvus* Quoy and Gaimard, Voy. 'Astrolabe', Zool., 1, 1830, p. 228; Atlas Ois., pl. 17, f. 2. (Celebes.)

Northern Peninsula of Celebes as far as the base of the Matinan Mts.; Togian Islands.

**Mulleripicus fulvus wallacei** Tweeddale

*Mulleripicus Wallacei* Tweeddale, Ann. and Mag. Nat. Hist. (4), 20, 1877, p. 533. (Macassar.)

*Microstictus intermedius* A. B. Meyer, Notes Leyden Mus., 23, 1903, p. 186. (Gimpoe, Celebes.)

*Lichtensteinipicus wallacei ochraceus* Rensch, Orn. Monatsb., 34, 1926, p. 175. (Muna Island.)

All of central Celebes to the base of the northern Peninsula, the south, southeast and east peninsulas; Island of Muna.

GENUS **DRYOCOPUS** BOIE

*Dryocopus* Boie, Isis von Oken, 1826, Bd. 2, col. 977. Type, by monotypy, *Picus martius* Linné.

*Dryotomus* Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 301. Type, by original designation, *Picus martius* Linné.

*Hylatomus* Baird, Rept. Expl. & Surv. R. R. Pacific, 9, 1858, p. xxviii, 107. Type, by monotypy, *Picus pileatus* Linné.

*Ceophloeus* Cabanis, Journ. f. Orn., 10, 1862, p. 176. Type, by original designation, *Picus lineatus* Linné.

*Phloeotomus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 102. Type, by monotypy, *Picus pileatus* Linné.

*Thriponax* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 105. Type, by subsequent designation, *T. javensis* = *Picus javensis* Horsfield (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 497.)

*Neophloeotomus* Dabbene, An. Mus. Nac. Hist. Nat. Buenos Aires, 27, 1915, p. 76. Type, by original designation, *Phloeotomus schulzi* Cabanis.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 87–91. Chasen, Bull. Raffles Mus., no. 11, 1935, p. 151.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13 pt. 2, no. 2, 1919, p. 457–461.

Démentiev, Alauda, 13, 1939, p. 7–17.

Hand-List Jap. Bds., ed. 3, 1942, p. 94.

Hartert, Vög. pal. Fauna, 2, 1912, p. 933–935.

Kuroda, Tori, 5, 1927, p. 237–241.

Peters, Occ. Papers Boston Soc. Nat. Hist., 5, 1930, p. 317–322.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 146–164.

Stresemann, Nov. Zool., 20, 1913, p. 316–321.

van Rossem, Trans. San Diego Soc. Nat. Hist., 8, 1934, p. 9–12.

### **Dryocopus martius pinetorum** (C. L. Brehm)

*Dendrocopus pinetorum* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 185. (Mountains in the coniferous forests.)

Europe east to western Poland, south to northern Spain and the Balkan Peninsula, also in the Caucasus, Asia Minor and the mountains of northern Iran.

### **Dryocopus martius martius** (Linné)

*Picus martius* Linné, Syst. Nat., ed. 10, 1, 1758, p. 112. (Europe, = Sweden, ex Fn. Suec.)

*Dendrocopus martius reichenowi* Kothe, Orn. Monatsb., 14, 1906, p. 95. (Ussuri River, Amur region.)

*Picus jakutorum* Buturlin, Journ. f. Orn., 58, 1908, p. 284. (Jakutsk, Siberia.)

*Dryocopus martius silvifragus* Riley, Proc. Biol. Soc. Washington, 28, 1915, p. 162. (Hakodate, Hokkaido.)

*Dryoscopus* [sic] *martius morii* Kuroda, Auk, 38, 1921, p. 575. (Gumpojo, Keiki distr., Korea.)

*Dryocopus martius sakhalinensis* Momiyama, Annot. Orn. Orient., 1, 1928, p. 211. (Ham-tasa, southern Sakhalin.)

Scandinavia and the Baltic States eastward across the coniferous forest belt of northern Russia and Siberia to the Sea of Okhotsk, and south to central Russia, forests of the Khirghiz Steppes, the Altai, Dzungaria, Mongolia, northern China, Korea, Sakhalin, Kurile Islands (Kunashiri only) and Hokkaido.

***Dryocopus martius khamensis* (Buturlin)**

*Picus khamensis* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 229. (Eastern slope of the great plateau of Tibet.)

Western China from Koko Nor to Tibet.

***Dryocopus javensis hodgei* (Blyth)**

*Mulleripicus Hodgei* Blyth, Journ. As. Soc. Bengal, 29, 1860, p. 105. (Andaman Islands.)

Andaman Islands.

***Dryocopus javensis hodgsonii* (Jerdon)**

*Malaclophus (Hemilophus) Hodgsonii* Jerdon, Madras Journ. Lit. Sci., 11, 1840, pt. 1, p. 215, pl. 2.<sup>1</sup> (Indian Peninsula; restricted type locality, Telicherry.)

Western India from Belgaum to Travancore

***Dryocopus javensis richardsi* Tristram**

*Dryocopus richardsi* Tristram, Proc. Zool. Soc. London, 1879, p. 386, pl. 31. (Tsushima.)

Central and southern Korea; Island of Tsushima where now extirpated.

***Dryocopus javensis forresti* Rothschild**

*Dryocopus forresti* Rothschild, Bull. Brit. Orn. Cl., 43, 1922, p. 9. (Mekong Valley, Yunnan.)

Mountains of extreme southeastern Sikang, western Yunnan and northern Tonkin (Chapa).

***Dryocopus javensis feddeni* (Blyth)**

*Mulleripicus Feddeni* "Blanford" Blyth, Journ. As. Soc. Bengal, 32, Jan. or later, 1863, p. 75. (Burma = Pegu.)

*Thriponax Jerdoni* Cabanis and Heine, Mus. Hein, Th. 4, after 15 July, 1863, Heft 2, p. 105. (Upper Pegu.)

Burma from the Chin and Kachin Hills and the Northern Shan States to northern Tenasserim; Siam south to about lat. 12° N., Bas Laos, southern Annam, Cambodia and Cochin-China.

<sup>1</sup> The plate is lettered *Picus Hodgsonii*.



**Dryocopus javensis javensis** (Horsfield)

*Picus Javensis* Horsfield, Trans. Linn. Soc. London, 13, pt. 1, 1821, p. 175. (Java.)

*Picus crawfurdii* J. E. Gray in Griffith, Cuvier's Anim. Kingd., 7, [Aves, 2], 1829, plate to text on p. 513. (No locality, "from an Indian drawing".) <sup>1</sup>

Southern Tenasserim southward over the Malay Peninsula; Sumatra, Riouw Archipelago, Bangka, Mansalar Island, Java, Bali, Borneo, North Bornean Islands, North Notoena Islands.

**Dryocopus javensis parvus** (Richmond)

*Thriponax parvus* Richmond, Proc. Biol. Soc. Washington, 15, 1902, p. 189. (Simalur Island.)

Simalur [Simeuloeë] Island.

**Dryocopus javensis büttikoferi** (Richmond)

*Thriponax javensis büttikoferi* Richmond, Proc. Biol. Soc. Washington, 25, 1912, p. 104. (Siaba Bay, Nias Island.)

Nias Island.

**Dryocopus javensis hargitti** (Sharpe)

*Thriponax hargitti* Sharpe, Ibis, 1884, p. 317, pl. 8. (Paláwan.)

Philippine Islands: Paláwan.

**Dryocopus javensis confusus** (Stresemann)

*Thriponax javensis confusus* Stresemann, Nov. Zool., 20, 1913, p. 317 (in key), p. 318. (Mt. Arayat, Luzon.)

Philippine Islands: Luzon.<sup>2</sup>

**Dryocopus javensis mindorensis** (Steere)

*Thriponax Mindorensis* Steere, List Bds. Mamms. Steere Exped., 1890, p. 8. (Mindoro.)

Philippine Islands: Mindoro.

**Dryocopus javensis philippensis** (Steere)

*Thriponax Philippensis* Steere, List Bds. Mamms. Steere Exped., 1890, p. 8. (Guimaras and Masbate.)

Philippine Islands: Masbate, Panay, Guimaras, Negros.

**Dryocopus javensis pectoralis** (Tweeddale)

*Thriponax pectoralis* Tweeddale, Proc. Zool. Soc. London, 1878, p. 340. (Leyte.)

Philippine Islands: Samar, Leyte, Panaon, Bohol.

<sup>1</sup> The drawing evidently made from an aberrant specimen of *D. j. javensis* lacking the red malar stripe and with a gray patch on the breast.

<sup>2</sup> I am unable to discover on what basis Hachisuka records this race from Cebu and Bongao.

**Dryocopus javensis multilunatus** (McGregor)

*Thriponax multilunatus* McGregor, Phil. Journ. Sci., 2, 1907, p. 285. (Isabella, Basilan.)

Philippine Islands: Mindanao, Basilan.

**Dryocopus javensis suluënsis** (W. Blasius)

*Thriponax javensis* var. nov. *suluënsis* W. Blasius, Journ. f. Orn., 38, 1890, p. 140. (Sulu Archipelago.)

Sulu Archipelago.

**Dryocopus pileatus picinus** (Bangs)

*Phlæotomus pileatus picinus* Bangs, Proc. New England Zool. Cl., 4, 1910, p. 79. (Sumas, British Columbia.)

Canadian and Transition zone forests of western North America from southern British Columbia to northern California, south in the Coast Range to Marin Co. and in the Sierra Nevada to the Greenhorn Mts., east to western Montana.

**Dryocopus pileatus abieticola** (Bangs)

*Ceophlæus pileatus abieticola* Bangs, Auk, 15, 1898, p. 176. (Greenville, Maine.)

Canadian and Transition zone forests from Mackenzie, Manitoba, New Brunswick and Nova Scotia, south to Minnesota, Iowa, Illinois, Indiana, Ohio, Pennsylvania, New York and central New England, extending southward in the Alleghenies to West Virginia.

**Dryocopus pileatus pileatus** (Linné)

*Picus pileatus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (America = South Carolina *ex* Catesby.)

Lower Austral forests of the United States from Oklahoma, Illinois and southeastern Pennsylvania to the Gulf coast and interior of Georgia, extending westward to middle Texas, and in the mountains from northern Tennessee southward.

**Dryocopus pileatus floridanus** (Ridgway)

*Phlæotomus pileatus floridanus* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 33. (Prevatt's Camp, 24 miles southwest of Kissimmee, Florida.)

Coastal plain of Georgia southward over the Florida peninsula.

**Dryocopus lineatus obsoletus** (van Rossem)

*Ceophloeus lineatus obsoletus* van Rossem, Trans. San Diego Soc. Nat. Hist., 8, 1934, p. 12. (Alamos, Sonora.)

Southern Sonora, northern Sinaloa and probably adjacent parts of Chihuahua.

**Dryocopus lineatus scapularis** (Vigors)

*Picus scapularis* Vigors, Zool. Journ., 4, 1829, p. 354. (San Blas [Nayarit], Mexico.)

Southern Sinaloa, Jalisco, Nayarit and Guerrero.

**Dryocopus lineatus petersi** (van Rossem)

*Ceophloeus lineatus leucopterylus* of authors not *Campephilus leucopterylus* of Reichenbach.

*Ceophloeus lineatus petersi* van Rossem, Trans. San Diego Soc. Nat. Hist., 8, 1934, p. 11. (Ciudad Victoria, Tamaulipas.)

Tamaulipas, Nuevo León, San Luís Potosí and perhaps adjacent parts of northern Veracruz.

**Dryocopus lineatus similis** (Lesson)

*Picus similis* Lesson, Description de Mamm. et d'Ois. récomm. decouv., 1847, p. 204. (San Carlos, Central America = La Unión, El Salvador.) <sup>1</sup>

Forested lowlands of southern México and Central America from Oaxaca and southern Veracruz to northwestern Costa Rica.

**Dryocopus lineatus mesorhynchus** (Cabanis and Heine)

*Ceophloeus mesorhynchus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 86. (Costa Rica.) <sup>2</sup>

Eastern and southern Costa Rica and western Panamá.

**Dryocopus lineatus nuperus** (Peters)

*Ceophloeus lineatus nuperus* Peters, Occ. Papers Boston Soc. Nat. Hist., 5, 1930, p. 320. (La Concepción, 3000 feet, Santa Marta, Colombia.)

Panamá from the Canal Zone eastward; Colombia west of the Eastern Andes and in the Santa Marta region.

**Dryocopus lineatus lineatus** (Linné)

*Picus lineatus* Linné, Syst. Nat., ed. 12, 1, 1766, p. 174. (Cayenne.)

Amazonian Colombia to the Guianas and south to Amazonian Perú, northern Bolivia and the greater part of Brazil east to Maranhão (?), thence southward to Paraná; Paraguay; northern Argentina in provs. of Salta, Formosa and Misiones; Island of Trinidad.

<sup>1</sup> Issued as a Supplement to the Œuvres de Buffon, ed. Lévêque, of which it appears to be Vol. 20.

<sup>2</sup> See van Rossem, *antea*, p. 9-10, for a discussion of the identity of the three cotypes on which the name *mesorhynchus* was founded.

**Dryocopus lineatus fuscipennis** Sclater

*Dryocopus fuscipennis* Sclater, Proc. Zool. Soc. London, pt. 28, 1860, p. 286. (Babahoyo, Ecuador.)

Western Ecuador and northwestern Peru.

**Dryocopus lineatus improcerus** (Bangs and Penard)

*Ceophloeus lineatus improcerus* Bangs and Penard, Bull. Mus. Comp. Zool., 62, 1918, p. 58. (Baía, Brazil.)

Eastern Brazil in State of Baía.

**Dryocopus erythrops erythrops** (Valenciennes)

*Picus erythrops* Valenciennes, Dict. Sci. Nat., éd, Levrault, 40, 1826, p. 178. (Brazil.)

Eastern and southern Brazil in states of Pernambuco (?), Espirito Santo, Rio de Janeiro, São Paulo, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.<sup>1</sup>

**Dryocopus erythrops fulcitus** (Peters)

*Ceophloeus erythrops fulcitus* Peters, Occ. Papers Boston Soc. Nat. Hist., 5, 1926, p. 195. (Resistencia, Chaco, Argentina.)

Northern Argentina in Territory of Chaco.

**Dryocopus schulzi** (Cabanis)

*Phloeotomus Schulzi* Cabanis, Journ. f. Orn., 31, 1883, p. 102. (Tucumán.)

*Neophloeotomus Shiptoni* Dabbene, An. Mus. Nac. Hist. Nat. Buenos Aires, 27, 1915, p. 79, pl. 1. (Vipos, 500 metres, Tucumán.)

*Neophloeotomus Schulzi major* Dabbene, Physis (Buenos Aires), 2, pt. 10, 1916, p. 167. (Resistencia, Chaco.)

*Ceophloeus ater* Mogensen, Hornero, 5, 1932, p. 64. (New name for *major*.)

Argentina in provs. of Chaco, Santiago del Estero, Tucumán, Córdoba and Misiones; Paraguay (one record).

**Dryocopus galeatus** (Temminck)

*Picus galeatus* "Natter." Temminck, Pl. col., livr. 29, 1822, pl. 171. (Brazil.)

*Campephilus rufifrons* W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 49. (Río Alto Paraná, lat. 25° 43' S.)

<sup>1</sup>It has been suggested that *D. erythrops* is but subspecifically distinct from *D. lineatus*, but if the specimens cited in literature are correctly identified, the ranges of the two forms overlap over a large area. The inter-relationships of the *lineatus-erythrops-schulzi* group are quite involved and require additional field study.

Southern Brazil in states of São Paulo, Paraná and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

GENUS **ASYNDESMUS** COUES

*Asyndesmus* Coues, Proc. Acad. Nat. Sci. Philadelphia, 1866, p. 55. Type, by original designation, *Picus torquatus* Wilson = *Picus lewis* G. R. Gray.

cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 114–117.

**Asyndesmus lewis** (G. R. Gray)

*Picus torquatus* Wilson, Am. Orn., 3, 1811, p. 31, pl. 20, f. 3.<sup>1</sup>  
(No locality = Montana, lat. 46° N.) Not of Boddaert, 1783.

*Picus Lewis* "Drap." G. R. Gray, Gen. Bds., 3, 1849, app., p. 22.  
New name for *Picus torquatus* Wilson, preoccupied.

*Asyndesmus lewisi* Riley, Proc. Biol. Soc. Washington, 18, 1905, p. 225. New name for *Picus torquatus* Wilson, preoccupied.

Breeds from Vancouver Island, southern British Colombia, northwestern Montana and southwestern South Dakota, south to California, central Arizona and southern New Mexico, extending eastward to northwestern Nebraska and eastern Colorado; migratory in the northern parts of its range and wintering south and east to northern Baja California, California, northern Sonora, southern New Mexico and western Texas.

GENUS **MELANERPES** SWAINSON

*Melanerpes* Swainson, Fauna Bor.-Am., 2, 1831 (1832), p. 316.  
Type, by monotypy, *Picus erythrocephalus* Linné.

*Centurus* Swainson, Classif. Bds., 2, 1837, p. 310. Type, by subsequent designation, *C. carolinus* (L.) = *Picus carolinus* Linné (G. R. Gray, List Gen. Bds., 1840, p. 55.)

*Tripsurus* Swainson, Classif. Bds., 2, 1837, p. 311. Type, by monotypy, *P. flavifrons* Spix, pl. 52 = *Picus flavifrons* Vieillot.

*Linneopicus* Malherbe, Nouv. Classif. Picinées 1850, p. 52. Type, by monotypy, *Picus herminieri* Lesson.<sup>2</sup>

*Balanosphyra* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 34. Type, by original designation, *Picus formicivorus* Swainson.

*Chrysערpes* W. Miller, Bull. Am. Mus. Nat. Hist., 34, 1915, p. 517. Type, by original designation, *Picus striatus* P. L. S. Müller.

<sup>1</sup>The plate is lettered "L. Woodpecker".

<sup>2</sup>See Richmond, Proc. U. S. Nat. Mus., 53, 1917, p. 599.



cf. Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 417-418 (*Melanerpes*); 418-426 (*Centurus*); 426 (*Chrysערpes*); 426-429 (*Balanosphyra*); 429 (*Linneopicus*); 430-432 (*Tripsurus*).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 41-48 (*Melanerpes*); 48-100 (*Centurus*); 100-112 (*Balanosphyra*); 112-113 (*Linneopicus*); 117-124 (*Tripsurus*).

Wetmore, Proc. U.S. Nat. Mus., 93, 1943, p. 273-277 (races of *aurifrons*).

***Melanerpes erythrocephalus caurinus* Brodkorb**

*Melanerpes erythrophthalmus* Silloway, Bull. Fergus County [Montana] Free High School, no. 1, 1903, p. 36. (Fergus Co., Montana.) *Lapsus*

*Melanerpes erythrocephalus erythrophthalmus* Oberholser, Canadian Field Nat., 33, 1919, p. 48. (Lewiston, Fergus Co., Montana, ex Silloway.)

*Melanerpes erythrocephalus caurinus* Brodkorb, Occ. Papers Mus. Zool. Univ. Michigan, no. 303, 1935, p. 2. (Lodgepole Creek, 2 miles northwest of Chappell, Deuel Co., Nebraska.)

Breeds from about the International boundary from north-central Montana to eastern North Dakota southward through eastern Wyoming, western Nebraska, eastern Colorado to northern New Mexico. Partially migratory in the northern part of its range.

***Melanerpes erythrocephalus erythrocephalus* (Linné)**

*Picus erythrocephalus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (America = South Carolina.)

Breeds from southern Manitoba, southern Ontario, New York and New England (rare and local east of the Hudson and Delaware rivers) south to the Gulf coast and Florida, west to Minnesota, eastern Nebraska, eastern Kansas and central Texas. Irregularly migratory in the northern part of its range.

***Melanerpes portoricensis* (Daudin)**

*Picus portoricensis* Daudin, Ann. Mus. d'Hist. Nat. [Paris], 2, 1803, p. 286, pl. 51.<sup>1</sup> (Puerto Rico.)

Puerto Rico.

***Melanerpes herminieri* (Lesson)**

*Picus Herminieri* Lesson, Traité d'Orn., livr. 3, 1830, p. 228. (North America, error = Guadeloupe, Lesser Antilles.)

Island of Guadeloupe, Lesser Antilles.

<sup>1</sup> The plate is lettered "Pic de Portorico".

**Melanerpes formicivorus bairdi** Ridgway

*Melanerpes formicivorus bairdi* Ridgway, Bull. U.S. Nat. Mus., 21, 1881, p. 85. (California; type from Petaluma, Sonoma Co.)

Pacific coast region of the United States from southwestern Oregon to southern California.

**Melanerpes formicivorus martirensis** (Grinnell and Swarth)

*Balanosphyra formicivora martirensis* Grinnell and Swarth, Condor, 28, 1926, p. 176, f. 48c. (La Jolla, 6200 feet, Sierra San Pedro Mártir, Baja California.)

Baja California, chiefly on the western slopes of the Sierra San Pedro Mártir, north nearly to the United States boundary and south to about lat. 31° N.

**Melanerpes formicivorus angustifrons** Baird

*Melanerpes formicivorus* var. *angustifrons* Baird, in Cooper's Orn. Cal., 1, 1870, p. 405. (Cape San Lucas, Baja California.)

Mountains of the Cape district of Baja California.

**Melanerpes formicivorus formicivorus** (Swainson)

*Picus formicivorus* Swainson, Philos. Mag. (n.s.), 1, 1827, p. 439. (Temiscáltepec, México.)

?*Melanerpes xantholarynx* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 384, pl. DCXLIII, figs. 4293-94. (Mexico?) The type is unique; perhaps a partial albino.

*Melanerpes formicivorus aculeatus* Mearns, Auk, 7, 1890, p. 249. (Squaw Peak, central Arizona.)

[*Balanosphyra formicivora*] *mearnsi* van Rossem, Bull. Mus. Comp. Zoöl., 77, 1934, p. 444, in text. (Mountains of southern Arizona.) New name for *M. f. aculeatus* Mearns, lapsus.

Arizona, New Mexico, western and south-central Texas, south to Oaxaca, Puebla and Veracruz.

**?Melanerpes formicivorus lineatus** (Dickey and van Rossem)

*Balanosphyra formicivora lineata* Dickey and van Rossem, Proc. Biol. Soc. Washington, 40, 1927, p. 1. (Mt. Cacaguatique, 3800 feet, Dept. San Miguel, El Salvador.)

Southern Chiapas, Guatemala, western British Honduras, Honduras, El Salvador and northern Nicaragua. Doubtfully distinct from *M. f. albeolus*.

**Melanerpes formicivorus albeolus** Todd

*Melanerpes formicivorus albeolus* Todd, Proc. Biol. Soc. Wash-

ington, 23, 1910, p. 153. (Near Manatee, British Honduras.)  
Coast region of British Honduras.

**Melanerpes formicivorus striatipectus** Ridgway

*Melanerpes formicivorus* var. *striatipectus* Ridgway, in Baird, Brewer and Ridgway, Hist. No. Am. Bds., 2, 1874, p. 561, note. (Middle America south of Orizaba and Mirador; type from Birris, Costa Rica.)

Highlands of Costa Rica and western Panamá.

**Melanerpes formicivorus flavigula** (Malherbe)

*Melampicos flavigula* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 542. (No locality = Colombia.)

Subtropical zone of the Andes of Colombia.

**Melanerpes hypopolius uropygialis** (Baird)

*Centurus uropygialis* Baird, Proc. Acad. Nat. Sci. Philadelphia, 7, 1854, p. 120. (Bill Williams Fork of Colorado River, New Mexico, i.e. Arizona.)

Southern Arizona (except lower Colorado valley) and southwestern New Mexico, south to northern and central Sonora.

**Melanerpes hypopolius albescens** (van Rossem)

*Centurus uropygialis albescens* van Rossem, Condor, 44, 1942, p. 22. (Laguna Dam, lower Colorado River, Imperial Co., California.)

Imperial Valley in California and the Colorado Valley from southern Nevada to northwestern Sonora.

**Melanerpes hypopolius cardonensis** (Grinnell)

*Centurus uropygialis cardonensis* Grinnell, Condor, 29, 1927, p. 168. (Cañon San Juan de Dios, 10 miles east of El Rosario, lat. 30° N, Baja California.)

Central part of the Baja California peninsula, north on the east side to about lat. 32° N.

**Melanerpes hypopolius brewsteri** (Ridgway)

*Centurus uropygialis brewsteri* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Santiago, Baja California.)

Baja California from about lat. 28° 30' N., southward.

**Melanerpes hypopolius fuscescens** (van Rossem)

*Centurus uropygialis fuscescens* van Rossem, Bull. Mus. Comp. Zool., 77, 1934, p. 410. (Chinobampo, Sonora.)

Southwestern Sonora south to northern Sinaloa and east to southwestern Chihuahua.

**Melanerpes hypopolius tiburonensis** (van Rossem)

*Centurus uropygialis tiburonensis* van Rossem, Condor, **44**, 1942, p. 22. (Petrel Bay, Tiburón Island.)

Confined to Tiburón Island in the Gulf of California off the coast of Sonora.

**Melanerpes hypopolius sulfuriventer** (Reichenbach)

*Centurus sulfuriventer* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 410, pl. DCLXIV, figs. 4401, 4402. (México, = central-western Mexico *apud* van Rossem.)

Western México in states of Sinaloa, Nayarít, Durango, Jalisco, Zacatecas and Aguas Calientes.

**Melanerpes hypopolius hypopolius** (Wagler)

*Picus hypopolius* Wagler, Isis von Oken, **22**, 1829, col. 514. (México; types from Tehuacán and Tecuapán, Puebla.)

México in states of Puebla, México, Morelos, Guerrero and Oaxaca.

**Melanerpes carolinus zebra** (Boddaert)

*Picus zebra* Boddaert, Table Pl. enlum., 1783, p. 43. (Louisiana, *ex* Daubenton, pl. 692; restricted to Baton Rouge, Louisiana by Burleigh and Lowery, 1944.)

Central United States in the Mississippi drainage area from southeastern South Dakota and Michigan to the Gulf of Mexico and west to central Texas.

**Melanerpes carolinus carolinus** (Linné)

*Picus carolinus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (North America = South Carolina.)

Eastern United States, chiefly Atlantic drainage, from western New York, southern Pennsylvania and Delaware to the central part of the Florida peninsula.

**Melanerpes carolinus perplexus** (Burleigh and Lowery)

*Centurus carolinus perplexus* Burleigh and Lowery, Occ. Papers Mus. Zool. Louisiana State Univ., no. 17, 1944, p. 298. (Cape Sable, near Flamingo, Munroe Co., Florida.)

Southern part of the Florida peninsula, north to about Charlotte Harbor; Florida Keys.

**Melanerpes aurifrons polygrammus** (Cabanis)

*Centurus polygrammus* Cabanis, Journ. f. Orn., **10**, 1862, p. 326. (San Bartolo, Tehuantepec.)

Pacific slope of southwestern México from southeastern Oaxaca to western Chiapas.

**Melanerpes aurifrons frontalis** Nelson

*Melanerpes frontalis* Nelson, Auk, 17, 1900, p. 257. (San Vicente, Chiapas.)

Chiapas, except extreme western and northern; northwestern Guatemala (?).

**Melanerpes aurifrons aurifrons** (Wagler)

*Picus Aurifrons* Wagler, Isis von Oken, 22, 1829, col. 512. ("México" = Hidalgo.)

The greater part of Texas (except Big Bend region) and southward over northern and central México to Jalisco, Michoacán, México and Tamaulipas (except southern).

**Melanerpes aurifrons incanescens** (Todd)

*Centurus aurifrons incanescens* Todd, Ann. Carnegie Mus., 30, 1946, p. 298. (Twelve miles south of Marathon, Brewster Co., Texas.)

Big Bend region of western Texas.

**Melanerpes aurifrons grateloupensis** (Lesson)

*Picus Grateloupensis* Lesson, Rev. Zool., 1839, p. 41. (México.)

Eastern México from extreme southern Tamaulipas and southeastern San Luís Potosí south to central Veracruz and eastern Puebla.

**Melanerpes aurifrons veraecrucis** Nelson

*Melanerpes dubius veraecrucis* Nelson, Auk, 17, 1900, p. 259. (Coatzacoalcos, Veracruz.)

Southeastern Veracruz to northern Chiapas, western Campeche, Tabasco and adjacent parts of Guatemala.

**Melanerpes aurifrons dubius** (Cabot)

*Picus dubius* Cabot, Proc. Boston Soc. Nat. Hist., 1, 1844, p. 164. (Yucatán; type from Uxmal.)

Eastern Campeche and Yucatán to Petén and British Honduras.

**Melanerpes aurifrons leei** (Ridgway)

*Centurus leei* Ridgway, Proc. Biol. Soc. Washington, 3, 1885, p. 22. (Cozumel Island.)

Mecos and Cozumel Island; Mujeres Island (?).

**Melanerpes aurifrons santacruzi** (Bonaparte)

*Centurus Santa Cruzei* Bonaparte, Proc. Zool. Soc. London, pt. 5, 1837 (1838), p. 116. (Guatemala.)



*Melanerpes santacruzi fumosus* Nelson, Auk, 17, 1900, p. 258.  
(Huehuetan, Chiapas.)

Southwestern Chiapas south through central and eastern Guatemala to western Honduras, El Salvador and northern Nicaragua.

***Melanerpes aurifrons pauper* (Ridgway)**

*Centurus santacruzi pauper* Ridgway, Proc. U.S. Nat. Mus., 10, 1888, p. 582. (Truxillo, Honduras.)

Caribbean slope of Honduras.

***Melanerpes aurifrons insulanus* (Bond)**

*Centurus santa-cruzi insulanus* Bond, Proc. Acad. Nat. Sci. Philadelphia, 88, 1936, p. 360. (Utilia Island.)

Confined to Utilia Island, Bay Islands, Gulf of Honduras.

***Melanerpes aurifrons canescens* (Salvin)**

*Centurus canescens* Salvin, Ibis, 1889, p. 370. (Ruatan Island.)

Islands of Ruatan and Barburat [Barbareta].

***Melanerpes aurifrons hoffmannii* (Cabanis)**

*Centurus Hoffmannii* Cabanis, Journ. f. Orn., 10, 1862, p. 322. (Costa Rica.)

Nicaragua and the central plateau and Pacific slope of Costa Rica.

***Melanerpes chrysogenys chrysogenys* (Vigors)**

*Picus chrysogenys* Vigors, in Zool. Beechey's Voy., 1839, p. 24.

(No locality, but either Mazatlan Sinaloa or San Blas or Tepic, Nayarit.)<sup>1</sup>

Western México in states of Sinaloa and Nayarit.

***Melanerpes chrysogenys flavinuchus* (Ridgway)**

*Centurus chrysogenys flavinuchus* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 32. (Acapulco, Guerrero.)

Western México in states of Jalisco, Colima, Morelos, Guerrero and Oaxaca.

***Melanerpes superciliaris bahamensis* (Cory)**

*Centurus bahamensis* Cory, Auk, 9, 1892, p. 270. (Great Bahama Island.)

Bahama Islands: Great Bahama.

***Melanerpes superciliaris nyeanus* (Ridgway)**

*Centurus nyeanus* Ridgway, Auk, 3, 1886, p. 336. (Watling's Island.)

Bahama Islands: Watling's Island.

<sup>1</sup> cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 90, note b.

**Melanerpes superciliaris blakei** (Ridgway)

*Centurus blakei* Ridgway, Auk, 3, 1886, p. 337. (Abaco Island.)  
Bahama Islands: Abaco.

**Melanerpes superciliaris superciliaris** (Temminck)

*Picus superciliaris* Temminck, Pl. col., livr. 73, 1827, pl. 433.  
(Cuba.)  
Island of Cuba.

**Melanerpes superciliaris murceus** (Bangs)

*Centurus superciliaris murceus* Bangs, Proc. Biol. Soc. Washington, 23, 1910, p. 173. (San Juan, Isle of Pines.)  
*Centurus superciliaris merceus* Cory, Field Mus. Nat. Hist. Publ., Zool. Ser., 13, pt. 2, no. 2, 1919, p. 419. *Lapsus*.  
Isle of Pines.

**Melanerpes caymanensis** (Cory)

*Centurus caymanensis* Cory, Auk, 3, 1886, p. 499. (Grand Cayman.)  
Island of Grand Cayman.

**Melanerpes radiolatus** (Wagler)

*Picus radiolatus* Wagler, Syst. Av., 1827, Picus, sp. 39.  
(Jamaica.)  
Island of Jamaica.

**Melanerpes striatus** (P. L. S. Müller)

*Picas* [sic] *striatus* P. L. S. Müller, Natursyst., Suppl., 1776, p. 91. (Santo Domingo.)  
Island of Hispaniola.

**Melanerpes rubricapillus rubricomus** nomen nov.

*Centurus rubriventris* Swainson, Anim. in Menag., 1838 (1837), p. 354. (No locality = Mérida, Yucatan) <sup>1</sup> Not *Picus rubriventris* Vieillot, 1818, which = *Melanerpes flavifrons* (Vieillot), 1818.

Northern part of the Yucatán Peninsula.

**Melanerpes rubricapillus pygmaeus** (Ridgway)

*Centurus rubriventris pygmaeus* Ridgway, Proc. U.S. Nat. Mus., 8, 1885, p. 576. (Cozumel Island.)  
Cozumel Island.

**Melanerpes rubricapillus tysoni** (Bond)

*Centurus rubriventris tysoni* Bond, Proc. Acad. Nat. Sci. Phila-  
<sup>1</sup> cf Lawrence, Ann. Lyc. Nat. Hist. N.Y., 9, 1868, p. 206.

delphia, 88, 1936, p. 361. (Bonacca Island, Bay Islands, Gulf of Honduras.)

Confined to Bonacca Island.

**Melanerpes rubricapillus costaricensis** (Aldrich)

*Centurus rubricapillus costaricensis* Aldrich, Sci. Publ. Cleveland Mus. Nat. Hist., 7, 1937, p. 81. (El Pozo, 25 feet, Río Térraba, Puntarenas, Costa Rica.)

Southwestern Costa Rica.

**Melanerpes rubricapillus rubricapillus** (Cabanis)

*Centurus rubricapillus* Cabanis, Journ. f. Orn., 10, 1862, p. 328. (Barranquilla, Colombia.)

*Melanerpes Wagleri* Salvin and Godman, Biol. Centr.-Am., Aves, 2, 1895, p. 416. ("Parts of Venezuela and Colombia including the State of Panamá" = Loma del Leon, Canal Zone.)

*Melanerpes subelegans neglectus* Richmond, Proc. U.S. Nat. Mus., 18, 1896, p. 668. (Bogotá, Colombia.)

*Melanerpes wagleri sanctæ-martæ* Bangs, Proc. Biol. Soc. Washington, 12, 1898, p. 134. (Santa Marta, Colombia.)

Panamá and the Caribbean coast of northern Colombia, extending up the Magdalena River to Chicoral and to western Venezuela (Perijá).

**Melanerpes rubricapillus seductus** (Bangs)

*Malanerpes* [sic] *seductus* Bangs, Auk, 18, 1901, p. 26. (San Miguel Island [now Isla El Rey], Pearl Islands.)

Pearl Islands, where apparently confined to Isla El Rey.

**Melanerpes rubricapillus paraguanae** (Gilliard)

*Centurus subelegans paraguanae* Gilliard, Am. Mus. Novit., no. 1071, 1940, p. 7. (Cerro Santa Ana, Paraguaná Peninsula, Venezuela.)

Northwestern Venezuela on the Paraguaná Peninsula and the adjacent mainland of the State of Falcón from Casigua to Cumarebo.

**Melanerpes rubricapillus terricolor** (Berlepsch)

*Centurus terricolor* Berlepsch, Ibis, 1880, p. 113. (Orinoco district or Trinidad.)

Northern Venezuela, except parts occupied by *M. r. paraguanae*; islands of Margarita, Trinidad and Tobago.

**Melanerpes pucherani perileucus** Todd

*Melanerpes pucherani perileucus* Todd, Proc. Biol. Soc. Washington, 23, 1910, p. 154. (Near Manatee, British Honduras.)

Southern México in states of Veracruz, Puebla and Oaxaca, south through British Honduras and the Caribbean slope of Guatemala to northern Honduras.

**Melanerpes pucherani pucherani** (Malherbe)

*Zebraepicus Pucherani* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 542. (Tobago, error = Colombia by designation of Hellmayr, Proc. Zool. Soc. London, 1911, p. 1188.)

Southeastern Honduras, Nicaragua, eastern Costa Rica, Panamá, the Pacific slope and lower Cauca Valley in Colombia, and western Ecuador.

**Melanerpes chrysauchen chrysauchen** Salvin

*Melanerpes chrysauchen* Salvin, Proc. Zool. Soc. London, 1870, p. 213. (Bogaba [Chiriquí], Panamá.)

Southwestern Costa Rica and the Pacific slope of western Panamá.

**Melanerpes chrysauchen pulcher** Sclater

*Melanerpes pulcher* Sclater, Proc. Zool. Soc. London, 1870, p. 330. (Near Bogotá, Colombia.)

Northern Colombia in depts. of Antioquia, Santander and Boyacá; Bogotá trade skins.<sup>1</sup>

**Melanerpes flavifrons flavifrons** (Vieillot)

*Picus flavifrons* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 75. (Brazil.)

South-central Brazil in states of Goiás, Minas Gerais, Baía, Espírito Santo and Rio de Janeiro.

**Melanerpes flavifrons rubriventris** (Vieillot)

*Picus rubriventris* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 103. (Paraguay, *ex* Azara.)

Southeastern Brazil in states of São Paulo, Paraná, Santa Catarina, Rio Grande do Sul and southeastern Mato Grosso; north-eastern Argentina; Paraguay.

**Melanerpes cruentatus extensus** (Todd)

*Tripsurus cruentatus extensus* Todd, Ann. Carnegie Mus., 25, 1937, p. 251. (Arimã, Rio Purús, Brazil.)

Tropical South America east of the Andes to Venezuela and northwestern and western Brazil, south to Perú, northeastern Bolivia and the Rio Madeira.

<sup>1</sup> Goodfellow's record (*Ibis*, 1902, p. 210) for this bird in northwestern Ecuador refers to *M. p. pucherani*, *vide* Chapman, 1926, p. 362.

**Melanerpes cruentatus cruentatus** (Boddaert)

*Picus cruentatus* Boddaert, Table Pl. enlum., 1783, p. 43.  
(Cayenne, *ex* Daubenton, pl. 694, f. 2.)

The Guianas and the Pará region of eastern Brazil.

NOTE. *Melanerpes hargitti* Du Bois, Syn. Av., 1, fasc. 1, 1899, p. 68, pl. 2, f. 2. (No locality.) Based on *Melanerpes sp. inc.* Dubois, Proc. Zool. Soc. London, 1897, p. 783, appears to be a hybrid, *M. c. cruentatus* x *M. rubrifrons*.

**Melanerpes rubrifrons** (Spix)

*Picus rubrifrons* Spix, Av. Bras., 1, 1824, p. 61, pl. 55, figs. 1, 2.  
(Pará.)

Eastern Venezuela, the Guianas and northern Brazil.

GENUS **LEUCONERPES** SWAINSON

*Leuconerpes* Swainson, Classif. Bds., 2, 1837, p. 310. Type, by monotypy, *L. candidus*, Zool. Ill. pl. 38 = *Picus candidus* Otto.

*cf.* Gyldenstolpe, K. Svenska Vet. Akad. Handl. (3), 23, 1945, no. 1, p. 127–128.

Steullet and Deautier, Obra Cincuentenario Mus. de la Plata, 1, 5<sup>a</sup> entr., 1946, p. 950–952.

**Leuconerpes candidus** (Otto)

*Picus candidus* Otto, Buffon's Naturg. Vögel, 23, 1796, p. 191.  
(Cayenne; not known to occur at present.)

Campo region of Brazil in states of Amazonas, Pará (including islands of Mexiana and Marajó), Maranhão, Piauí, Baía, Espírito Santo, Minas Gerais, Goiás, Mato Grosso, Rio de Janeiro, São Paulo; central Bolivia; Paraguay; Uruguay; northern Argentina in provs. of Jujuy, Salta, Formosa, Chaco, Tucumán, Santiago del Estero, La Rioja, San Luis, Córdoba, Santa Fé, Misiones, Corrientes, Entre Ríos and northern Buenos Aires.

GENUS **SPHYRAPICUS** BAIRD

*Sphyrapicus* Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Surv. R. R. Pacific, 9, 1858, p. xviii, xxviii, 80, 101.  
Type, by original designation, *Picus varius* Linné.

*cf.* Am. Orn. Union, Checklist, ed. 4, 1931, p. 192–194.

Grinnell and Miller, Pacific Coast Avif., no. 27, 1944, p. 234–238.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 272–289.

Wetmore, Proc. U.S. Nat. Mus., 86, 1939, p. 193–195.



**Sphyrapicus varius ruber** (Gmelin)

*Picus ruber* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 429. (Cayenne; error = Nootka Sound, British Columbia.)<sup>1</sup>

*Picus ruber notkensis* G. A. Suckow, Anfangsgr. Naturg. Thierte, 2, 1800, p. 535. (Nootka Sound, British Columbia.)

Breeds from southeastern Alaska southward in the mountains to western Oregon; Queen Charlotte Islands, Vancouver Island. Winters in the southern part of its range.

**Sphyrapicus varius daggetti** Grinnell

*Sphyrapicus ruber auct.* not *Picus ruber* Gmelin.

*Sphyrapicus varius daggetti* Grinnell, Condor, 3, 1901, p. 12. (Pasadena, Los Angeles Co., California.)

Mountains of southern Oregon southward into northern California to Mendocino County and along the Sierra Nevada to Kern County, extending into extreme western Nevada and recurring on the highest mountains of southern California from Mt. Pinos to the San Jacinto Mountains.

**Sphyrapicus varius nuchalis** Baird

*Sphyrapicus varius* var. *nuchalis* Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Survey R. R. Pacific, 9, 1858, p. xxviii, p. 103. (Southern Rocky Mts. = Mimbres River, New Mexico.)

Breeds in the mountains (east of the Cascade ranges) from central British Columbia, and southern Alberta south to extreme northeastern California, Arizona, central New Mexico and western Texas; winters at lower elevations and southward to west-central México and all Baja California.

**Sphyrapicus varius varius** (Linné)

*Picus varius* Linné, Syst. Nat., ed. 12, 1, 1766, p. 176. (North America = South Carolina *ex* Catesby.)

Breeds from Manitoba, southern Quebec and Newfoundland, south to central Missouri, central Indiana, northern Ohio, northern New York and northern New England, extending westward through central Alberta and central Mackenzie and southward in the mountains to Massachusetts and North Carolina. Winters from the southern part of its breeding range to the Bahamas, Greater Antilles and western Panamá.

**Sphyrapicus thyroideus thyroideus** (Cassin)

*Picus thyroideus* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 5, 1851, p. 349. (California, type from Georgetown, twelve miles from Sutter's Mill, Eldorado Co.)

<sup>1</sup> Swarth, Univ. Cal. Publ. Zool., 10, 1912, p. 34.

Breeds from southern British Columbia (Okanagan region), southward in the mountains through west-central Washington, Oregon eastward from the summit of the Cascades, northern California and the entire length of the Sierra Nevada in California and the western margin of Nevada, recurring in the highest ranges of southern California to the San Jacinto Mountains. Chiefly resident, but descending to lower elevations in winter and south to northern Baja California.

**Sphyrapicus thyroideus nataliae** (Malherbe)

*Picus Nataliae* Malherbe, Journ. f. Orn., 2, 1854, p. 171. (México.)

Breeds from southeastern British Columbia (Kootenay), south in the mountains of Idaho, western Montana, Wyoming, Nevada (except Sierra Nevada), Utah and Colorado, to central Arizona and northern New Mexico. Winters north to Arizona, New Mexico and central Texas and south to Jalisco and Durango.

GENUS **TRICHOPICUS** BONAPARTE

*Trichopicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 123. (Consp. Vol. Zygodact., p. 8.) Type, by subsequent designation, *Picus cactorum* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 91.)

cf. Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 10 (in key and note b).

Steullet and Deautier, Obra Cincuentenario Mus. de la Plata, 1, 5<sup>a</sup> entr., 1946, p. 987-991.

**Trichopicus cactorum** (d'Orbigny)

*Picus cactorum* d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 51, 1840, pl. 62, f. 2; livr. 89, 1847, p. 378. (Near Chaluani and Chilon, Mizqué, Bolivia.)

*Trichopicus cactorum parvus* Brodkorb, Proc. Biol. Soc. Washington, 54, 1941, p. 23. (Km. 265, west of Puerto Casado, Paraguay.)

Southern Perú, Bolivia, western Paraguay, Uruguay, and Argentina south to the provs. of La Rioja, Córdoba and Entre Ríos.

GENUS **VENILIORNIS** BONAPARTE

*Veniliornis* Bonaparte, Ateneo Italiano, 2, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 21.) Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

*Eleopicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 125. (Consp.

- Vol. Zygodact., p. 10, no. 21 b.) Type, by subsequent designation, *Picus olivinus* Natterer. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)
- Capnopicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 22.) Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)
- Callipicus* Bonaparte, Ateneo Italiano, 2, May, 1854, p. 125. (Consp. Vol. Zygodact., p. 10, no. 31.) (Type, by monotypy, *Picus callonotus* Waterhouse.)
- Phaionerpes* Reichenbach, Handb. spec. Orn., cont. xii, Oct. 1854, Scansoriae c Picinae, p. 356. Type, by subsequent designation, *Picus fumigatus* d'Orbigny. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 337.)
- cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 351-353; 55, 1926, p. 362-366.
- Gyldenstolpe, K. Svenska Vet. Akad. Handl., 23, 1945, no. 1, p. 133-136.
- Pinto, Rev. Mus. Paulista, 22, 1938, p. 354-357.
- Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 185-194.
- Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 1-12.

**Veniliornis fumigatus oleagineus** (Reichenbach)

*Picus oleagineus* Lichtenstein, Preiss-Verzeichn. Säugeth. Vög. Mexico gesam., 1830, p. 1. (México.) *Nomen nudum*.

*Chloronerpes* (*Phaionerpes*) *oleagineus* Reichenbach (ex Lichtenstein), Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 356, pl. DCLXXV, f. 4467-68. (Papantla, Veracruz.) First description.

Eastern México in states of San Luís Potosí, northern Veracruz, México and Puebla.

**Veniliornis fumigatus sanguinolentus** (Sclater)

*Chloronerpes sanguinolentus* Sclater, Proc. Zool. Soc. London, pt. 27, 1859, p. 60, pl. 151. (Omoa, Honduras.)

Oaxaca and southern Veracruz, southward over Central America to western Panamá.

**Veniliornis fumigatus exsul** Todd

*Veniliornis oleaginus exsul* Todd, Proc. Biol. Soc. Washington, 33, 1920, p. 74. (Sierra Nevada de Santa Marta, 6000 feet, Colombia.)

Northern Colombia in the subtropical zone of the Santa Marta Mts.

**Veniliornis fumigatus reichenbachii** (Cabanis and Heine)

*Phaeonerpes Reichenbachii* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 141. (Caracas, Venezuela.)

*Veniliornis oleaginus exiguus* Todd, Proc. Biol. Soc. Washington, 29, 1916, p. 97. (La Cumbre de Valencia, Venezuela.)

Mountains of northern Venezuela.

**Veniliornis fumigatus tectricialis** Chapman

*Veniliornis oleaginus tectricialis* Chapman, Am. Mus. Novit., no. 191, 1925, p. 6. (Mt. Turumiquire, 7900 feet, Venezuela.)

Mountains of northeastern Venezuela.

**Veniliornis fumigatus fumigatus** (d'Orbigny)

*Picus fumigatus* d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 51, 1840, pl. 65, f. 1; livr. 89, 1847, p. 380. (Province of Corrientes, Argentina in lat. 28° S., and Santa Cruz de la Sierra and Province of Chiquitos in Bolivia = Yungas, Bolivia.)

*Veniliornis oleaginus aureus* Chapman, Bull. Am. Mus. Nat. Hist., 33, 1914, p. 612. (La Sierra, 6800 feet, Central Andes south of Popayán, Colombia.)

Andes of Mérida, Venezuela; Western Andes and west slopes of the Central Andes of Colombia south through the subtropical zone of eastern Ecuador, Perú and Bolivia.

**Veniliornis fumigatus obscuratus** Chapman

*Veniliornis oleaginus obscuratus* Chapman, Am. Mus. Novit., no. 250, 1927, p. 1. (Chugur, 9000 feet, 40 miles northwest of Cajamarca, Perú.)

Northwestern Perú, west of the Western Andes.

**Veniliornis spilogaster** (Wagler)

*Picus Spilogaster* Wagler, Syst. Av., 1827, Picus, sp. 59. (Brazil and Paraguay.)

*Dendrobates guttatus* W. Bertoni, An. Cient. Paraguayos (1), no. 1, 1901, p. 52. (Río Alto Paraná, Paraguay.)

Southern Brazil in southeastern Minas Gerais, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Uruguay; Paraguay; northeastern Argentina in Misiones and Entre Ríos.

**Veniliornis passerinus fidelis** (Hargitt)

*Dendrobates fidelis* Hargitt, Ibis, 1889, p. 59. (Bogotá.) Col. pl., Cat. Bds. Brit. Mus., 18, pl. 7.

Eastern Colombia and the upper Orinoco; western Venezuela in State of Táchira.

**Veniliornis passerinus modestus** Zimmer

*Veniliornis passerinus modestus* Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 3. (Caicara, Río Orinoco, Venezuela.)

Middle reaches of the Orinoco valley in Venezuela.

**Veniliornis passerinus diversus** Zimmer

*Veniliornis passerinus diversus* Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 2. (Frechal, Rio Surumú, Brazil.)

Extreme northern Brazil on the Rio Surumú; a specimen from near Itacoatiará on the north bank of the middle Amazon is referred here by Gyldenstolpe, *antea*, p. 135.

**Veniliornis passerinus agilis** (Cabanis and Heine)

*Campias agilis* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 147. (Río Napo.)

Eastern Ecuador, eastern Perú, western Brazil on the upper Rio Purús, and northern Bolivia in depts. of La Paz and El Beni.

**Veniliornis passerinus insignis** Zimmer

*Veniliornis passerinus insignis* Zimmer, Am. Mus. Novit., no. 1159, 1942, p. 2. (Igarapé Auará, right bank of the lower Rio Madeira, Brazil.)

South bank of the Amazon on both sides of the Rio Madeira and west to São Paulo de Olivença.

**Veniliornis passerinus tapajozensis** Gyldenstolpe

*Veniliornis passerinus tapajozensis* Gyldenstolpe, Ark. Zool., 33 B, 1941, no. 12, p. 7. (Santarem, Rio Tapajóz, Brazil.)

Both banks of the Amazon near its junction with the Tapajóz.

**Veniliornis passerinus saturatus** Todd

*Veniliornis passerinus saturatus* Todd, Ann. Carnegie Mus., 30, 1946, p. 310. (Mana, French Guiana.)

Extreme western Cayenne.

**Veniliornis passerinus passerinus** (Linné)

*Picus passerinus* Linné, Syst. Nat., ed. 12, 1, 1766, p. 174. (Dominica, error = Cayenne, by designation of Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 93.)

The Guianas, northeastern Brazil west to the Rio Xingú; Marajó Island.

**Veniliornis passerinus taenionotus** (Reichenbach)

*Chloronerpes taenionotus* Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 354, pl. DCXXV, f. 4164-65. (Interior of Brazil.)



*Veniliornis tæniochlamys* cearæ Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 306. (Serra Baturite, Ceará, Brazil.)

Eastern Brazil in states of Maranhão, Piauí, Ceará, Pernambuco and eastern Baía.

**Veniliornis passerinus transfluvialis** Hellmayr

*Veniliornis passerinus transfluvialis* Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 413. (Macaco Secco, near Andarahy, Baía, Brazil.)

Brazil in northern Goiás and western Baía.

**Veniliornis passerinus olivinus** (Natterer and Malherbe)

*Picus olivinus* Natterer and Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 67. (Brazil; type from Cuyabá, Mato Grosso.)

*Picus murinus* Natterer and Malherbe, Mém. Soc. Roy. Sci. Liège, 2, 1845, p. 67. (Brazil) = imm ♂ *vide* Hellmayr, Nov. Zool., 16, 1908, p. 81.

Southern Bolivia, Mato Grosso, southern Goiás and Minas Gerais, south to the Argentine Chaco, Paraguay and Paraná.

**Veniliornis frontalis** (Cabanis)

*Cloronerpes* [sic] (*Campias*) *frontalis* Cabanis, Journ. f. Orn., 31, 1883, p. 110. (Tucumán.)

Northwestern Argentina in provs. of Jujuy, Salta, Tucumán and Chaco.

**Veniliornis maculifrons** (Spix)

*Picus maculifrons* Spix, Av. Bras., 1, 1824, p. 62, pl. 56, f. 1. (Rio de Janeiro and Pará.)

Southeastern Brazil in states of Minas Gerais, Espírito Santo and Rio de Janeiro.

**Veniliornis (cassini ?) chocoensis** Todd

*Veniliornis chocoensis* Todd, Proc. Biol. Soc. Washington, 32, 1919, p. 116. (Malagita, Chocó, Colombia.)

Known only from two specimens; the type, and one other from Potedo in western Colombia.

**Veniliornis (cassini ?) cassini** (Malherbe)

*Mesopicus cassini* Malherbe, Monogr. Piciidées, 2 1862, p. 55; 3, pl. 58, figs. 2, 3, 4. (Brazil or Colombia; Cayenne substituted by Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 93.)

Venezuela from the Caura and lower Orinoco valleys east to the Guianas and south to northern Brazil on the upper Rio Negro and between the Jamundá and the Jary.

**Veniliornis affinis orenocensis** Berlepsch and Hartert

*Veniliornis orenocensis* Berlepsch and Hartert, Nov. Zool., 9, 1902, p. 93. (Nericagua and Munduapo, Venezuela.)

Eastern Colombia and the upper and middle Orinoco Valley in Venezuela, south to the north bank of the Solimões and the upper Rio Negro.

**Veniliornis affinis hilaris** (Cabanis and Heine)<sup>1</sup>

*Campias hilaris* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 154. (Perú, restricted to the Chanchamayo Valley by Zimmer, *antea*, p. 10.)

Eastern Ecuador and eastern Perú to western Brazil south of the Solimões east to the upper Rio Madeira; northern Bolivia.

**Veniliornis affinis ruficeps** (Spix)

*Picus ruficeps* Spix, Av. Bras., 1, 1824, p. 63, pl. 56, figs. 2 and 3. (Amazon forests = Pará, by designation of Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 412.)

Brazil from the lower Rio Madeira eastward to Pernambuco and south to the Machados, the lower Tapajóz and the lower Tocantins.

**Veniliornis affinis affinis** (Swainson)

*Picus affinis* Swainson, Zool. Illustr., 2, 1821-22 (1821), pl. 78. ("Provinces of Bahia and Rio de Janeiro" = Baía.)

Eastern Brazil in states of Baía, Espírito Santo and Rio de Janeiro.

**Veniliornis kirkii neglectus** Bangs

*Veniliornis neglectus* Bangs, Proc. New England Zool. Cl., 2, 1901, p. 99. (Divala, Panamá.)

Southwestern Costa Rica and Chiriquí.

**Veniliornis kirkii cecillii** (Malherbe)

*Mesopicos Cecillii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 538. (Colombia.)

*Veniliornis kirkii darienensis* Ridgway, Proc. Biol. Soc. Washington, 24, p. 1911, p. 33. (El Real, Darién.)

Eastern Panamá, tropical zone of Colombia and western Ecuador.

**Veniliornis kirkii continentalis** Hellmayr

*Veniliornis kirkii continentalis* Hellmayr, Nov. Zool., 13, 1906, p. 39. (Caripé, near Cumaná, Venezuela.)

Western Venezuela (Perijá) and northern Venezuela from Carabobo to Sucre.

<sup>1</sup> Replaces *Veniliornis haematostigma* (Malherbe) of Sharpe's Hand-list, invalid. For details cf. Zimmer, *antea*, p. 9-10.

**Veniliornis kirkii monticola** Hellmayr

*Veniliornis kirkii monticola* Hellmayr, Verh. Orn. Ges. Bayern, 13, 1918, p. 315. (Mt. Roraima, 5000 feet.)

Confined to Mt. Roraima on the Venezuela-British Guiana border.

**Veniliornis kirkii kirkii** (Malherbe)

*Picus (Chloropicus) Kirkii* Malherbe, Rev. Zool., 1845, p. 400. (Tobago.)

Islands of Trinidad and Tobago.

**Veniliornis callonotus callonotus** (Waterhouse)

*Picus callonotus* Waterhouse, Proc. Zool. Soc. London, pt. 8, 1840 (1841), p. 182. (Northwest coast of South America = Guayaquil, Ecuador.)

Arid Pacific slope of Ecuador from Esmeraldas to Puna Island.

**Veniliornis callonotus major** (Berlepsch and Taczanowski)

*Chloronerpes callonotus major* Berlepsch and Taczanowski, Proc. Zool. Soc. London, 1883 (1884), p. 571. (Tumbez, Guadalupe and Morropere, Perú.)

Arid tropical zone of extreme southwestern Ecuador to the Marañon Valley, Perú.

**Veniliornis sanguineus** (Lichtenstein)

*Picus sanguineus* Lichtenstein, Cat. Rer. Nat. rar., 1783, p. 17. (America = Guiana.)

The Guianas; Venezuela (?).<sup>1</sup>

**Veniliornis dignus dignus** (Sclater and Salvin)

*Chloronerpes dignus* Sclater and Salvin, Proc. Zool. Soc. London, 1877, p. 20, pl. 1. (Antioquia, Colombia; type from Remedios.)

Subtropical zone of the Andes of Colombia.

**Veniliornis dignus baezae** Chapman

*Veniliornis dignus baezae* Chapman, Am. Mus. Novit., no. 96, 1923, p. 8. (Baeza, 5000 feet, Ecuador.)

Subtropical zone of the Andes of eastern Ecuador.

**Veniliornis dignus valdizani** (Berlepsch and Stolzmann)

*Dendrobates valdizani* Berlepsch and Stolzmann, Ibis, 1894, p. 401. (Huacras, 7000 feet, Vitoc, Perú.)

Known only from the type locality in central Perú.

<sup>1</sup> Two specimens from Venezuela are listed in the Cat. Bds. Brit. Mus.; there are no other records, possibly the birds are wrongly labelled.

**Veniliornis nigriceps equifasciatus** Chapman

*Veniliornis nigriceps equifasciatus* [sic] Chapman, Bull. Am. Mus. Nat. Hist., 31, 1912, p. 144. (Santa Isabel, 12000 feet, Quindio Andes, Colombia.)

Humid temperate zone of Ecuador and the Central Andes of Colombia.

**Veniliornis nigriceps pectoralis** (Berlepsch and Stolzmann)

*Dendrobates malherbei pectoralis* Berlepsch and Stolzmann, Proc. Zool. Soc. London, 1902, vol. 2, p. 33. (Maraynioc, 13000 feet, Perú.)

Humid temperate zone of the Andes of central Perú.

**Veniliornis nigriceps nigriceps** (d'Orbigny)

*Picus nigriceps* d'Orbigny, Voy. Am. Mérid., 4, Ois., livr. 51, 1840, pl. 65, f. 2; livr. 89, 1847, p. 380. (Palca Grande, Ayupaya, Bolivia.)

Humid temperate zone of the Andes of Bolivia.

GENUS **DENDROPICOS** MALHERBE

*Dendropicos* Malherbe, Mém. Acad. Nat. Metz, 30, 1848-49 (after May 1849), p. 316, 338. Type, by subsequent designation, *Dendropicos lafresnayi* Malherbe. (Sclater, Bull. Brit. Orn. Cl., 42, 1921, p. 25.)

*Erythroneurpes* Reichenbach, Handb. spec. Orn., cont. xii, Oct. 1854, Scansoriae c Picinae, p. 356. Type, by subsequent designation, *Picus abyssinicus* Salt = *Mesopicus desmursi* Malherbe. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 293.)

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 440-447.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 578-586.

C. Grant, Ibis, 1915, p. 456-464.

C. Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 59, 1939, p. 52-53.

Roberts, Ann. Transvaal Mus., 16, 1935, p. 112-117.

**Dendropicos fuscescens cosensi** C. Grant

*Dendropicos fuscescens cosensi* C. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 101. (Senegal.)

Known only from the type, which may not have come from Senegal.

**Dendropicos fuscescens lafresnayi** Malherbe

*Dendropicos Lafresnayi* Malherbe, Rev. et Mag. Zool. (2), 1, Nov. 1849, p. 533. (Africa = Aguapim, Gold Coast.)

*Dendrocopus guineensis zechi* Neumann, Journ. f. Orn., 52, 1904, p. 400 (Kete-Kretschi, Togoland.)

West Africa from Gambia through all of Upper Guinea to Nigeria.

***Dendropicos fuscescens camerunensis* (Sharpe)**

*Dendropicus camerunensis* Sharpe, Ibis, 1907, p. 443. (River Ja, Cameroons.)

*Dendropicos lafresnayi adamauae* Grote, Journ. f. Orn., 71, 1923, p. 368. (Laro, Garua region, northern Cameroons.)

Cameroons and the Cameroon-Nigerian highlands to the Uelle.

***Dendropicos fuscescens sharpii* (Oustalet)**

*Dendropicus Sharpii* Oustalet, Nouv. Arch. Mus. Hist. Nat. [Paris] (2), 2, 1879, p. 62. (Doumé, Ogowé River, Gaboon.)

Gaboon and the southern Congo to the Ubangi River, the Kasai district and Kasongo.

***Dendropicos fuscescens loandæ* C. Grant**

*Dendropicos lafresnayi loandæ* C. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 101. (Luanda, Angola.)

Northern Angola to the Lulua district of the Belgian Congo and extending to the Lualaba River.

***Dendropicos fuscescens camacupæ* Bowen**

*Dendropicos fuscescens camacupæ* Bowen, Proc. Acad. Nat. Sci. Philadelphia, 82, 1930, p. 89. (Villa General Machado, Angola.)

The Angola plateau and the upper Katanga to the west shore of Lake Tanganyika (north to Tembwe) and Nyasaland; probably also adjacent sections of Northern Rhodesia.

***Dendropicos fuscescens stresemanni* Grote**

*Dendropicos guineensis stresemanni* Grote, Journ. f. Orn., 70, 1922, p. 43. (Okaukweyo, South West Africa.)

Ovamboland, northern Damaraland and Ngamiland (?).<sup>1</sup>

***Dendropicos fuscescens harei* Roberts**

*Dendropicos hartlaubi harei* Roberts, Ann. Transvaal Mus., 10, 1924, p. 84. (Barkly West.)

Southern Damaraland, Great Namaqualand, western Kalahari and Barkly West.

<sup>1</sup> The ranges of South Africa races of *Dendropicos fuscescens* are adapted from Roberts' 'Birds of South Africa,' 1940, p. 186 where they are briefly outlined but details omitted to the point where *capriviensis* and *stresemanni* are both attributed to 'Ngamiland'; *harei* to 'Damaraland', *stresemanni* to 'northern Damaraland' etc.



**Dendropicos fuscescens capriviensis** Roberts

*Dendropicos fuscescens capriviensis* Roberts, Ann. Transvaal Mus., 10, 1924, p. 84. (Caprivi Corner.)

Southwestern Northern Rhodesia (Machili River) and northern Bechuanaland.

**Dendropicos fuscescens transvaalensis** Roberts

*Dendropicos fuscescens transvaalensis* Roberts, Ann. Transvaal Mus., 10, 1924, p. 83. (Nylstroom [Transvaal].)

The lower elevations of northeastern Transvaal and adjacent parts of western Bechuanaland and Southern Rhodesia in the upper Limpopo Valley.

**Dendropicos fuscescens orangensis** Roberts

*Dendropicos fuscescens orangensis* Roberts, Ann. Transvaal Mus., 10, 1924, p. 83. (Potchefstroom [Transvaal].)

Orange River basin in Transvaal and Orange Free State.

**Dendropicos fuscescens intermedius** Roberts

*Dendropicos fuscescens intermedius* Roberts, Ann. Transvaal Mus., 10, 1924, p. 83. (Weenen, Natal.)

Foot hills of the Drakensberg in Natal and Transvaal.

**Dendropicos fuscescens fuscescens** (Vieillot) <sup>1</sup>

*Picus fuscescens* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 86. (South Africa, based on Levaillant, pl. 253; Grootvaders Bosch [Swellendam dist., Cape Province], selected as type locality by Roberts, 1924, p. 83.)

Southern and eastern Cape Province.

**Dendropicos fuscescens natalensis** Roberts

*Dendropicos hartlaubi natalensis* Roberts, Ann. Transvaal Mus., 10, 1924, p. 84. (Red Hill, Natal.)

Zululand and the low country of eastern Transvaal.

**Dendropicos fuscescens noomei** Roberts

*Dendropicos hartlaubi noomei* Roberts, Ann. Transvaal Mus., 10, 1924, p. 84. (Umbelluzi, south of Delagoa Bay.)

Northeastern Zululand and the Mozambique littoral north to the Limpopo River.

**Dendropicos fuscescens hartlaubii** Malherbe

*Dendropicos Hartlaubii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 532. (Zanzibar.)

<sup>1</sup> Replaces *Dendropicus cardinalis* (Gmelin) of Sharpe's Hand-list.

East African coastlands from Lamu to southern Mozambique; Island of Zanzibar.

***Dendropicos fuscescens massaicus* (Neumann)**

*Dendropicus guineensis massaicus* Neumann, Journ. f. Orn., 48, 1900, p. 206. (Ndala-lani, Lake Nguruman, Kenya Colony.)

*Dendropicus guineensis centralis* Neumann, Journ. f. Orn., 48, 1900, p. 206. (Iringa, Tanganyika Territory.)

Interior of East Africa from the Turkwell country to Tanganyika Territory, but not in the highlands west of the Rift Valley.

***Dendropicos fuscescens chyulu* van Someren**

*Dendropicos fuscescens chyulu* van Someren, Journ. E. Afr. and Uganda Nat. Hist. Soc., 14, 1939, no. 1-2, p. 48. (Chyulu Range, 6000 feet, Kenya Colony.)

Chyulu Hills.

***Dendropicos fuscescens lepidus* (Cabanis and Heine)**

*Ipctonus lepidus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 118. (Ethiopia.)

*Dendropicus simoni* Ogilvie-Grant, Bull. Brit. Orn. Cl., 10, 1900, p. xxxviii (Konduro, Ethiopia.)

Highlands of western Ethiopia, Bahr el Ghazal, central and western Kenya Colony, Uganda, and eastern Belgian Congo to the highlands near Baraka.

***Dendropicos fuscescens hemprichii* (Ehrenberg)**

*Picus Hemprichii* Ehrenberg, in Hemprich and Ehrenberg, Symb. Phys., Aves [1833], fol. r. (Arkiko, Ethiopia.)

*Dendropicus hemprichi albicans* Erlanger, Journ. f. Orn., 50, 1902, p. 258. (Juba.)

Eritrea, Ethiopia (except southwestern), Somaliland and the Northern Frontier Province of Kenya Colony.

***Dendropicos stierlingi* Reichenow**

*Dendropicos stierlingi* Reichenow, Orn. Monatsb., 9, 1901, p. 166. (Songea, Tanganyika Territory.)

Region about the northern end of Lake Nyasa and in northern Mozambique.

***Dendropicos elachus* Oberholser**

*Picus minutus* Temminck, Pl. col., livr. 33, 1823, pl. 197, f. 2. (Senegal and coast of Guinea.) Not *Picus minutus* Latham, 1790.

*Dendropicos elachus* Oberholser, Proc. Biol. Soc. Washington,

32, 1919, p. 8. (New name for *Picus minutus* Temminck, preoccupied.)

African semi-arid belt from Senegal and Casamance to Aïr, Bornu and Darfur.

***Dendropicos abyssinicus* (Stanley)**

*Picus Abyssinicus* Anonymous = Stanley, in Salt's Voy. Abyssinia, 1814, app., p. lvi. (Ethiopia.)

Highlands of Ethiopia.

***Dendropicos poecilolaemus* (Reichenow)**

*Dendropicus poecilolaemus* Reichenow, Orn. Monatsb., 1, 1893, p. 30. (Sconga, west of Lake Albert.)

*Dendropicus nandensis* Neumann, Orn. Monatsb., 9, 1901, p. 184. (Nandi, Kenya Colony.)

Northern Cameroons, Bahr el Ghazal, the Uelle district, Uganda, and the Nandi country in Kenya Colony, extending southward to Mt. Ruwenzori and Rutshuru.

***Dendropicos gabonensis* (Verreaux and Verreaux)**

*Dendrobates Gabonensis* J. and E. Verreaux, Rev. et Mag. Zool. (2), 3, 1851, p. 513. (Gaboon.)

Cameroons and Gaboon eastward to the southern Uelle and the Semliki Valley and extending southward into the Kasai.

***Dendropicos lugubris lugubris* (Hartlaub)**

*Dendropicus lugubris* Hartlaub, Syst. Orn. Westafr., 1857, p. 178. (Aguapim, Gold Coast.)

French Guinea, Sierra Leone, Liberia, Ivory Coast, Gold Coast.

***Dendropicos lugubris reichenowi* (Sjöstedt)**

*Dendropicus reichenowi* Sjöstedt, Orn. Monatsb., 1, 1893, p. 138. (Cameroons.)

Bonge district, north of Cameroon Mt.

GENUS **DENDROCOPOS** KOCH

*Dendrocopos* Koch,<sup>1</sup> Syst. baierischen Zool., 1, 1816, p. xxvii, 72, pl. 1A, f. a. Type, by subsequent designation, *D. major* = *Picus major* Linné. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 201.)

*Dryobates* Boie, Isis von Oken, 1826, Bd. 2, col. 977. Type, by monotypy, *Picus pubescens* Linné.

<sup>1</sup> Includes *Hypopicus* Bonaparte, *Dendrocoptes* Cabanis and Heine, "*Liopicus*" [= *Leiopicus*] Bonaparte, "*Iyngipicus*" [= *Yungipicus*] Bonaparte and *Xenopicus* Baird of Sharpe's Hand-list.

*Desertipicus* Bates and Kinnear, Bull. Brit. Orn. Cl., **55**, 1935, p. 156. Type, by original designation and monotypy, *Desertipicus doraë* Bates and Kinnear.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., **4**, 1927, p. 29–54. (*Hypopicus*, *Dryobates*, *Leiopicus*, *Yungipicus*.)

Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, **13**, 1908, p. 229–254.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., **13**, pt. 2, no. 2, 1919, p. 482–495. (*Dyctiopicus*, *Dryobates*); 496–497 (*Phrenopicus*.)

Delacour, in Delacour and Mayr, Bds. Philippines, 1946, p. 128–149.

Démentiev, *Alauda* (3), **6**, 1934, p. 428–451 (races of *major*); (3), **9**, 1937, p. 287–289 (races of *minor*).

Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 79–84 (races of *major*); **6**, 1927, p. 60–93 & map (races of *minor*).

Greenway, Auk, **60**, 1943, p. 564–574 (races of *canicapillus*)  
——Proc. New England Zoöl. Cl., **24**, 1947, p. 91–100 (Chinese races of *major*).

Handlist Jap. Bds., 3d and rev. ed., 1942, p. 87–93.

Hartert, Vög. pal. Fauna, **2**, 1912, p. 899–928; **3**, 1922, p. 2185–2188; Nachtr. 1, 1923, p. 65–67.

——and Steinbacher, Vög. pal. Fauna, Ergänzungs., Heft **4**, 1935, p. 364–376.

Oberholser, Proc. U. S. Nat. Mus., **40**, 1911, p. 595–621 (races of *villosus*); **41**, 1911, p. 139–159 (races of *scalaris*).

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 194–271.

Slater, Syst. Av. Ethiop., pt. 1, 1924, p. 300 (*Yungipicus*, except *stierlingi*).

Voous, On the History of the Distribution of the Genus *Dendrocopos* [1947], p. 1–142.

### ***Dendrocopos major major* (Linné)**

*Picus major* Linné, Syst. Nat., ed. 10, 1, 1758, p. 114. (Europe = Sweden *ex* Fn. Suec.)

*Dryobates major rossicus* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., **4**, 1925, p. 81. (Ostrov Dubia, near Saratov, Russia.)

Scandinavian Peninsula, Island of Bornholm, the Baltic States, and northern Russia, south to the old governments of Leningrad, Vladimir, Kostroma and probably Vyatka.

**Dendrocopos major pinetorum**<sup>1</sup> (C. L. Brehm)

*Picus pinetorum* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 187. (Coniferous forests of Germany.)

*Picus major arduennus* Kleinschmidt, Falco, 12, 1916, p. 12. (Northern France.)

*Dryobates major bulgariensis* Gengler, Balkanvögel, 1920, p. 139. (Nevscha, Bulgaria.)

Europe, except the parts occupied by other races.

**Dendrocopos major anglicus** (Hartert)

*Dendrocopus major anglicus* Hartert, Nov. Zool., 7, 1900, p. 528. (Horsham, Sussex, England.)

England and Scotland.

**Dendrocopos major italiae** (Stresemann)

*Dryobates major italiae* Stresemann, Anz. Orn. Ges. Bayern, no. 2, 1919, p. 9. (Bologna, Italy.)

*Dryobates major prealpinus* Burg, Weidmann, 1921, no. 6, p. 7. (Switzerland.)

Southern France, the Pyrenees, Switzerland and Italy.

**Dendrocopos major parroti** (Hartert)

*Dendrocopus major parroti* Hartert, Orn. Monatsb., 19, 1911, p. 191. (Corsica.)

Corsica.

**Dendrocopos major harterti** (Arrigoni)

*Dendrocopus major Harterti* Arrigoni, Avicula, 6, 1902, p. 103. (Macomer, Sardinia.)

*Dendrocopus sardus* Buturlin, Orn. Mitt., 1, 1910, p. 200. (Sassari, Sardinia.)

Sardinia.

**Dendrocopos major hispanus** (Schlüter)

*Picus major hispanus* Schlüter, Falco, 4, 1908, p. 11. (Sevilla, Spain.)

Portugal and southern Spain.

**Dendrocopos major canariensis** (König)

*Picus (Dendrocopus) canariensis* König, Journ. f. Orn., 37, 1889, p. 263. (Canary Islands = Tenerife, *ex* Journ. f. Orn., 38, 1890, p. 351.)

Canary Islands: Tenerife.

<sup>1</sup> Not invalidated by *Dendrocopus pinetorum* Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 185. If Brehm had spelled the generic name *Dendrocopus*, invalidation would have been automatic.



**Dendrocopos major thanneri** (le Roi)

*Dendrocopus maior thanneri* le Roi, Orn. Monatsb., 19, 1911, p. 81. (Gran Canaria.)

Canary Islands: Gran Canaria.

**Dendrocopos major mauritanus** (C. L. Brehm)

*Picus mauritanus*, auct. (*Picus lunatus*) C. L. Brehm, Vogelfang, 1855, p. 69. (Spain and northwestern Africa = lowlands of Morocco.)

Coastal lowlands of northern Morocco.

**Dendrocopos major lynesi** (Harrison)

*Dryobates major lynesi* Harrison, Bull. Brit. Orn. Cl., 64, 1944, p. 62. (Azrou, 4800 feet, Middle Atlas, central Morocco.)

Morocco in the Middle and High Atlas.

**Dendrocopos major numidus** (Malherbe)

*Picus Numidus* Malherbe, Mém. Acad. Roy. Metz, 24, 1843, pt. 2, p. 242. (Province of Bône, Algeria.)

Oak forests of Algeria and Tunisia.

**Dendrocopos major candidus** (Stresemann)

*Dryobates major candidus* Stresemann, Anz. Orn. Ges. Bayern, no. 2, 1919, p. 10. (Stefanesci, near Bucharest, Romania.)

? *Dryobates major artobolevskii* Charlemagne, Journ. Cycle Bio-Zool. [Kiev], 1934, no. 418; Acad. Sci. Ukraine, 1934, no. 4 (8), p. 26. (Ukraine in autumn and winter.)<sup>1</sup>

Romania, Bulgaria and southern Russia.

**Dendrocopos major tenuirostris** (Buturlin)

*Dendrocopus major tenuirostris* Buturlin, Ibis, 1906, p. 412. (Kutaisi and Akhaltsikhe, Caucasus.)

*Dryobates major kurae* Laubmann, Orn. Jarhb., 26, 1915, p. 46. (Kura River, Caucasus.)

Crimea, Caucasus and Transcaucasia.

**Dendrocopos major paphlagoniae** (Kummerlöwe and Niethammer)

*Dryobates maior paphlagoniae* Kummerlöwe and Niethammer, Journ. f. Orn., 83, 1935, p. 45. (Ilgaz Dag, Asia Minor.)

Asia Minor in the mountains north of Ankara.

<sup>1</sup> Believed by its describer to be characterized by a stouter bill than *candidus* and with that organ longer and more slender than *D. m. major*; thought to migrate to the Ukraine from somewhere to the northwest.

**Dendrocopos major poelzami** (Bogdanov)

*Picus poelzami* Bogdanov, Verh. Ges. Kasan, 8, 1879, no. 4, p. 121 [Vög. Kaukasus] (Lenkoran.)

Lenkoran and the mountains of northern Iran.

**Dendrocopos major brevirostris** (Reichenbach)

*Picus brevirostris* Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 365, in text, pl. DCXXXIII, fig. 4212. (Irtysh River, Siberia.)

*Dendrocopus major mongolus* Lönnberg, Ark. Zool., 5, 1909, no. 9, p. 24. (Northern Mongolia, and southern Transbaikalia; type from Topka, Kentei Mts.)

*Dendrocopus major sibiricus* Buturlin, Orn. Mitt., 1, 1910, p. 201. (Eastern Siberia.)

*Dendrocopus major kirghizorum* Buturlin, Orn. Mitt., 1, 1910, p. 202. (Semipalatinsk and Irtysh River.)

Northern Russia (Arkhangelsk, northern Vologda and northern Urals) and Siberia north to end of forest zone and east to Amurland, south to the Kirghiz Steppes, southern Altai, Transbaikalia and northern Mongolia.

**Dendrocopos major tianshanicus** (Buturlin)

*Dendrocopus major tianshanicus* Buturlin, Orn. Mitt., 1, 1910, p. 200. (Kamennaia River, near Charkent, Kunges River, and a winter bird from Semipalatinsk.)

Coniferous forests of the central Tien Shan.

**Dendrocopos major kamtschaticus** (Dybowski)

*Picus major kamtschaticus* Dybowski, Bull. Soc. Zool. France, 8, 1883, p. 368. (Birch forests of Kamchatka and on migration to Bering Island.)

Kamchatka.

**Dendrocopos major tscherskii** (Buturlin)

*Dendrocopus japonicus tscherskii* Buturlin, Nascha Ochota, July, 1910, p. 53. (Khanka Lake, Ussuriland.)

Ussuriland and Island of Sakhalin.

**Dendrocopos major japonicus** (Seeböhm)

*Picus japonicus* Seeböhm, Ibis, 1883, p. 24, in text (Hakodate [on Hokkaido], Yokohama [on Honshu], "South Yezo" [= Hakodate], Sakhalin and Kurile Islands = Hokkaido.)

*Dryobates major seoulensis* Kuroda and Mori, Auk, 39, 1922, p. 364. (Koryo, near Seoul, Chosen.)

Southern Kuriles (Urrupu to Kunashiri), Hokkaido and north-eastern Korea.

**Dendrocopos major hondoensis** (Kuroda)

*Dryobates major hondoensis* Kuroda, Auk, **38**, 1921, p. 577. (Minami-azumi-gori, Prov. Shinano, Honshu.)

*Dryobates major tusimensis* Momiyama, Annot. Orn. Orient., **1**, 1927, p. 60, Japanese text, p. 96, English text. (Shimoshima, Tsushima.)

*Dryobates major kurosio* Momiyama, Kagakuno Nôgyô, **20**, 1939, p. 13. (Hachijô) *Nomen nudum*.

Northern and central Honshu, Seven Islands of Izu (Hachijo, 1 spec.), Tsushima, central and southern Korea.

**Dendrocopos major cabanisi** (Malherbe)

*Picus Cabanisi* Malherbe, Journ. f. Orn., **2**, 1854, p. 172. (China; restricted to Weihsien, Shantung, by Greenway, 1947.)

*Dryobates major renschi* Kuroda, Tori, **6**, 1929, p. 61. (Hopeh Province, China.)

Southern Manchuria, and northeastern China in provinces of Hopeh, Honan, Shansi, Shantung, northern Kiangsu and northern Anwhei.

**Dendrocopos major mandarinus** (Malherbe)

*Picus mandarinus* Malherbe, Bull. Soc. Hist. Nat. Moselle, **8<sup>e</sup>** cahier, 1857, p. 17. (Whampoa [near Canton], China.)

*Dryobates cabanisi cadwaladeri* deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, **85**, 1934, p. 371. (Kyuloi, 6000 feet, 20 miles west of Ken Tung, Southern Shan States.)

Southern and southeastern China from Hupeh, southern Anwhei, southern Chekiang, south to Tonkin, northern Laos and extreme southeastern section of the Southern Shan States.

**Dendrocopos major beicki** (Stresemann)

*Dryobates major beicki* Stresemann, Orn. Monatsb., **35**, 1927, p. 134. (Lan-hu-kou, Kansu.)

Western China in Province of Kansu, probably also in northern Shensi.

**Dendrocopos major stresemanni** (Rensch)

*Dryobates major stresemanni* Rensch, Abh. Ber. Mus. Dresden, **16**, 1924, no. 2, p. 38. (Tsalila, on the Yunnan-Sikang border.)

*Dryobates cabanisi stephensoni* Stuart Baker, Bull. Brit. Orn. Cl., **46**, 1926, p. 70. (Lichiang Range, Yunnan.)

Western China in western Szechwan, eastern Sikang and northern Kweichow and Yunnan, extending north to about 33° N. and southward into northern Burma.

***Dendrocopos major hainanus* (Hartert and Hesse)**

*Dendrocopos cabanisi hainanus* Hartert and Hesse, Orn. Monatsb., 19, 1911, p. 192. (Cheteriang, Hainan.)

*Dryobates major akagera* Hachisuka, Orn. Soc. Japan, suppl. publ. no. 15, 1939, p. 62. (Mt. Wuchi, Hainan.)

Hainan.

***Dendrocopos leucopterus*<sup>1</sup> *albipennis* (Buturlin)**

*Dendrocopos albipennis* Buturlin, Semia Okhotnikov, no. 5, 1 April, 1908, p. 108. (Tedzhen, southern Transcaspia.)<sup>2</sup>

*Dendrocopos major transcaspicus* Sarudny, Orn. Monatsb., 16, Jan (April), 1908, p. 66. (Eastern Transcaspia.)

Southern and eastern Transcaspia in the drainage areas of the Tedzhen, the Murgab, Gerri-ruda, lower and middle Amu Darya, Kabadian River, Kamar-Sarai and Urta Turgai to the Parkhara River.

**? *Dendrocopos leucopterus jaxartensis* (Sarudny)**

*Dryobates leucopterus albipennis natio jaxartensis* Sarudny, Izv. Turk. otd. Russ. geogr. O., 16, 1923, p. 100. (Lower Syr Darya.)

Lower and middle Syr Darya, up the Jany Darya to Chimaz, also the saxaul country of Kyzyl Kum and Barak Island in the Aral Sea. Doubtfully distinct from *D. l. albipennis*.

<sup>1</sup> There is considerable divergence of opinion as to the position of *leucopterus* and its division into geographical races. Hartert in 1912 considered it specifically distinct from *major* and recognized three races; a view which was retained by Hartert and Steinbacher in 1935. Kinnear (*Ibis*, 1933, p. 683-685) likewise regarded *leucopterus* as specifically distinct. Démén-tiev in 1934 not only reduces *leucopterus* to the status of a subspecies of *major*, but refuses to recognize any of the additional races recognized by Hartert or the "natio" proposed by Sarudny in 1923. The other extreme is reached by Buturlin in *Poln'ii Opredelitel Ptits SSSR*, 3, 1936, p. 198-199 where *leucopterus* is maintained as a species in which are included the two races previously recognized by Hartert plus two of the three "natio" proposed by Sarudny in 1923, making a total of five forms. Stegmann, Orn. Monatsb., 40, 1935, p. 15-20 points out that where the ranges of *major* and *leucopterus* apparently conflict that the former is the form found in the spruce forest on the mountains and that the latter is confined to the "meadow woods" in the valleys.

<sup>2</sup> For reasons for adopting *albipennis* cf Hartert, Vög. pal. Fauna, 2, p. 909.

**Dendrocopos leucopterus leptorhynchus** (Severtzov)

*Picus leptorhynchus* Severtzov, Ibis, 1875, p. 487. (Turkestan = Tashkent.)

*Dryobates leucopterus leptorhynchus natio bucharensis* Sarudny, Izv. Turk. otd. Russ. geogr. O., 16, 1923, p. 97. (Khazret-baba, Alpine Buchara.)

Alpine parts of Turkestan and the Ferghana valley, including the drainage basins of the Chirchik and Zeravshan rivers, south in Alpine Buchara to the foothills of the Pamirs and down the Pianja to the Parkhara River and east to the Tekes valley.

**? Dendrocopos leucopterus korejevi** (Sarudny)

*Dryobates leucopterus leptorhynchus natio korejevi* Sarudny, Izv. Turk. otd. Russ. geogr. O., 16, 1923, p. 95. (Kuldja.)

Southwestern Ala-tau, region about Kuldja, western spurs of the Boro Koro range, Jarkent [or Dzharkent or Panfilov], Atbashi, Fort Naryn. Doubtfully distinct from *D. l. leptorhynchus*.

**Dendrocopos leucopterus leucopterus** (Salvadori)

*Picus (Dendrocopus) leucopterus* Salvadori, Atti Acad. Sci. Torino, 6, 1870, p. 129. (Yarkand, Kashgaria.)

Southern Dzungaria (Manass, Urumchi, Bodgo Ula Mts.) and Kashgaria.

**Dendrocopos syriacus balcanicus** (Gengler and Stresemann)

*Dryobates major balcanicus* Gengler and Stresemann, Anz. Orn. Ges. Bayern, no. 1, 1919, p. 2. (Kaluchowa, Macedonia.)

*Dryobates syriacus romanicus* Catuneanu, Notat. Biol., 1, 1933, p. 85. (Pragova and Buzau, Romania.)

Eastern Yugoslavia and the Transylvanian Alps to Macedonia and Bulgaria.

**Dendrocopos syriacus syriacus** (Ehrenberg)

*Picus syriacus* Ehrenberg, in Hemprich and Ehrenberg, Symb. Phys., Aves, fol. r [1833], note 5. (Mt. Lebanon.)

Asia Minor, the Levant States, Palestine, Mesopotamia and western Iran.

**Dendrocopos syriacus transcaucasicus** (Buturlin)

*Dendrocopus syriacus transcaucasicus* Buturlin, Orn. Mitt., 1, 1910, p. 193, 195. (Aresh dist. in western part of Elizabet-polsk Gouv.)

Transcaucasia; perhaps not different from *D. s. syriacus*.



**Dendrocopos syriacus milleri** (Sarudny)

*Dendrocopus syriacus milleri* Sarudny, Orn. Monatsb., 17, 1909, p. 81. (Volcano Kuh-i-Taftan, Iranian Baluchistan.)

Confined to the type locality in southeastern Iran.

**Dendrocopos assimilis** (Blyth)

*Picus assimilis* "Natterer" Blyth, Journ. As. Soc. Bengal, 18, no. 2, 1849, p. 803. (Himalayas; type from Rawal Pindi, Punjab, cf. Stresemann, Anz. Orn. Ges. Bayern, no. 4, 1921, p. 24.)

*Picus scindeanus* Horsfield and Moore, Cat. Bds. Mus. East India. Co., 2, 1856-58 (1858), p. 671. (Shikapore, Sind.)

Southeastern Iran, Baluchistan, Sind, western Punjab.

**Dendrocopos himalayensis albescens** (Stuart Baker)

*Dryobates himalayensis albescens* Stuart Baker, Bull. Brit. Orn. Cl., 46, 1926, p. 70. (Goona [= Guna], Kashmir.)

Western Himalayas (northeastern Afghanistan, Chitral, North-west Frontier, Kashmir, Punjab).

**Dendrocopos himalayensis himalayensis** (Jardine and Selby)

*Picus himalayensis* Jardine and Selby, in Jardine's Illustr. Orn., 3, 1835, Sig. D., pl. 116 and text. (Mussorie, 6500 feet.)

The Himalayas from Simla to Garhwal and Kumaon.

**Dendrocopos darjellensis darjellensis** (Blyth)

*Picus (Dendrocopus) darjellensis* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845, p. 196. (Darjeeling and Nepal.)

*Picus majoroides* "Hodgson" Blyth, Journ. As. Soc. Bengal, 14, pt. 1, 1845, p. 196 in text. Alternate name.<sup>1</sup>

Nepal and Sikkim eastward through northern Burma, the Shan States and northern Tonkin.

**Dendrocopos darjellensis desmursi** (J. Verreaux)

*Picus desmursi* J. Verreaux, Nouv. Arch. Mus. Hist. Nat. [Paris], 6, 1870, Bull., p. 33. (Mountains of Chinese Tibet.)

Western China in provs. of Sikang and western Yunnan.

**Dendrocopos medius medius** (Linné)

*Picus medius* Linné, Syst. Nat., ed. 10, 1, 1758, p. 114. (Europe = Sweden *ex* Fn. Suec.)

Southern Sweden and Norway through central Europe to the Alps, Austria and Hungary.

<sup>1</sup>First validation of the nude name which was originally published in Gray's Zool. Misc., 1844, p. 85.

**Dendrocopos medius lilianae** (Witherby)

*Dryobates medius lilianæ* Witherby, Bull. Brit. Orn. Cl., 42, 1922, p. 49. (Potes, Santander, Spain.)

Northwestern Spain.

**Dendrocopos medius splendidior** (Parrot)

*Dendrocopos medius splendidior* Parrot, Journ. f. Orn., 53, 1905, p. 555. (Hag Saranti, Epirus.)

Southern Hungary, Romania, Bulgaria, Turkey and Greece.

**Dendrocopos medius anatoliae** (Hartert)

*Dryobates medius anatoliae* Hartert, Vög. pal. Fauna, 2, Heft 2, 1912, p. 924. (Xanthus, Asia Minor.)

Asia Minor.

**Dendrocopos medius caucasicus** (Bianchi)

*Dendrocoptes medius caucasicus* Bianchi, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 9, 1904, p. 4. (Northern Caucasus.)

Western sections of northern Caucasia.

**Dendrocopos medius laubmanni** (Götz)

*Dendrocoptes medius colchicus* Buturlin, Orn. Mitt., 1, 1910, p. 196, 198. (Kutais district, southern Caucasus.) Not *Xylocopus minor colchicus* Buturlin, 1908.

*Dryobates medius transcaucasicus* Buturlin, Orn. Monatsb., 20, 1912, p. 64. New name for *Dendrocoptes medius colchicus* Buturlin 1910. Not *Dendrocopus syriacus transcaucasicus* Buturlin, 1910.

*Dryobates medius laubmanni* Götz, Verh. Orn. Ges. Bayern, 15, 1923, p. 321. New name for *Dendrocoptes medius transcaucasicus* Buturlin, 1912, preoccupied.

Kutais, Batum and Kubinski districts in Transcaucasia, and adjacent parts of northern Iran.

**Dendrocopos medius sancti-johannis** (Blanford)

*Picus sancti-johannis* Blanford, Ibis, 1873, p. 226. (Oak forests near Shiraz, 4000–7000 feet, Iran.)

Southwestern Iran.

**Dendrocopos leucotos leucotos** (Bechstein)

*Picus leucotos* Bechstein, Orn. Taschenb., 1, 1803, p. 66 and fig. of ♀ (Silesia.)

*Dendrocopus leuconotus carpathicus* Buturlin, Izv. Kavkaza Mus., 3, 1907, p. 47. (Bucovina.)

*Dryobates leucotos stechowi* Sachtleben, Verh. Orn. Ges. Bayern, 14, 1919, p. 181. (Zubrovo, Gouv. Grodno, Lithuania.)

Scandinavian Peninsula, northern Russia south to about lat. 49° N., eastern Germany, Poland, Hungary and Romania.

***Dendrocopos leucotos lilfordi* (Sharpe and Dresser)**

*Picus Lilfordi* Sharpe and Dresser, Ann. and Mag. Nat. Hist. (4), 8, 1871, p. 436. (Epirus.)

*Dryobates leucotos caucasicus* Tschchikwischwili, Bull. Mus. Georgie, 4, 1927 (1928), p. 281. (Borzhomi, Caucasus.)

*Dryobates lilfordi ponticus* Buturlin, Ptitzы sev. Kavkaza, 1929, p. 14. (Khosta and Churuksu in northwestern Transcaucasia.)

Balkan Peninsula, Asia Minor and western Transcaucasia.

***Dendrocopos leucotos uralensis* (Malherbe)**

*Picus Uralensis* Malherbe, Monogr. Pucidées, 1, 1861, p. 92; 3, pl. 23, f. 4, 5, 6. (Ural Mts. at least in the Baschkir country; Siberia.)

Southern Urals and western Siberia (birds from the Altai, Sayan, Baikal and Transbaicalia approach the typical form).<sup>1</sup>

***Dendrocopos leucotos voznesenskii* (Buturlin)**

*Dendrocopus leuconotos voznesenskii* Buturlin, Izv. Kavkaza Mus., 3, 1907, p. 47. (Kamchatka.)

Eastern Siberia and Kamchatka.

***Dendrocopos leucotos saghalinensis* (Yamashina)**

*Dryobates leucotos saghalinensis* Yamashina, Tori, 7, 1931, p. 1. (Otomari, Sakhalin.)

Sakhalin.

***Dendrocopos leucotos ussuriensis* (Buturlin)**

*Dendrocopus leuconotus ussuriensis* Buturlin, Izv. Kavkaza Mus., 3, April, 1907, p. 47. (Sidemi, Ussuri.)

*Dryobates leucotos ussurianus* Clark, Proc. U. S. Nat. Mus., 32, June, 1907, p. 473. (Ussuri.)

*Dendrodromas leuconotus clarki* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 234. (New name for *D.l. ussurianus* Clark.)

Amurland, Ussuri, northern Manchuria and northeastern Korea.

***Dendrocopos leucotos sinicus* (Buturlin)**

*Dendrocopus leuconotus sinicus* Buturlin, Izv. Kavkaza Mus., 3, April, 1907, p. 46. (Pekin.)

<sup>1</sup> cf. Stegmann, Journ. f. Orn., 84, 1936, p. 110-111.

*Dryobates leucotos coreensis* Clark, Proc. U. S. Nat. Mus., 32, June, 1907, p. 472. (Fusan, Korea.)

Northeastern China in Province of Hopeh, and in Korea (except northeastern).

***Dendrocopos leucotos quelpartensis* (Kuroda and Mori)**

*Dryobates leucotos quelpartensis* Kuroda and Mori, Tori, 2, 1918, p. 74, 88. (Quelpart Island.)

Confined to Saishu To [Quelpart Island].

***Dendrocopos leucotos subcirris* (Stejneger)**

*Dryobates subcirris* Stejneger, Proc. U. S. Nat. Mus., 9, 1886, p. 113. (Sapporo, Hokkaido.)

*Dryobates leucotos yamashinae* Bergman, Ark. Zool., 23B, 1931, no. 3, p. 4. (Nikishiro, Kunashiri, Kurile Islands.)

Southern Kurile Islands (Kunashiri), and on Hokkaido.

***Dendrocopos leucotos stejnegeri* (Kuroda)**

*Dryobates leucotis* [sic] *stejenegeri* [sic] Kuroda, Auk, 38, 1921, p. 579. (Minami-azumi-gori, Prov. Shinano, Hondo.)

Northern and central Honshu, Sado.

***Dendrocopos leucotos namiyei* (Stejneger)**

*Dryobates namiyei* Stejneger, Proc. U. S. Nat. Mus., 9, 1886, p. 116. (Yamato, southwest of Osaka, Honshu.)

*Dryobates leucotis* [sic] *intermedius* Kuroda, Auk, 38, 1921, p. 580. (Prov. of Yamato, Honshu.) Not *Dryobates villosus intermedius* Nelson, 1900.

*Dryobates leucotos kurodae* Götz, Jahresh. Ver. vaterl. Naturk. Württemberg, 81, 1925, p. 95. (New name for *D. l. intermedius* Kuroda, preoccupied.)

*Dryobates leucotos uchidai* Momiyama, Annot. Orn. Orient., 1, 1927, p. 62, Japanese text, p. 96, English text. (Misimera-mura, Prov. of Hiuga, Kyushu.)

*Dryobates leucotos tookaidonis* Momiyama, Annot. Orn. Orient., 1, 1927, p. 66. "New name for northern form in Kuroda's *D. l. intermedius*."

Southwestern Honshu, Oki, Shikoku and Kyushu.

***Dendrocopos leucotos takahashii* (Kuroda and Mori)**

*Dryobates leucotos takahashii* Kuroda and Mori, Tori, 2, 1920, p. 266, Japanese text, p. 277, English text. (Yakinzan, Dagelet Island.)

Confined to Utsuryo To [Dagelet Island].

**Dendrocopos leucotos fohkiensis** (Buturlin)

*Dendrodomas insularis fohkiensis* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 235. (North-western Fukien.)

Southeastern China in mountains of northwestern Fukien.

**Dendrocopos leucotos owstoni** (Ogawa)

*Picus owstoni* Ogawa, Annot. Zool. Japon, 5, 1905, p. 203, pl. 10. (Amami O Shima.)

Northern Ryukyu Islands: Amami O Shima.

**Dendrocopos leucotos insularis** (Gould)

*Picus insularis* Gould, Proc. Zool. Soc. London, 1862 (1863), p. 283. (Formosa.)

Formosa.

**Dendrocopos cathpharius cathpharius** (Blyth)

*Picus (Dendrocopus) cathpharius* "Hodgson" Blyth, Journ. As. Soc. Bengal, 12, pt. 2, 1843, p. 1006. (Darjeeling.)

Bhutan, Nepal, Sikkim and the hills of northern Assam.

**Dendrocopos cathpharius pyrrhothorax** (Hume)

*Picus pyrrhothorax* Anonymous = Hume, Stray Feath., 10, 1881, p. 150. (Aimole, Eastern Manipur Hills.)

Hills of southern Assam (Khasi Hills, Naga Hills, Manipur Hills.)

**Dendrocopos cathpharius tenebrosus** (Rothschild)

*Dryobates cathpharius tenebrosus* Rothschild, Nov. Zool., 33, 1926, p. 240. (Shweli-Salween divide, 7000 feet, western Yunnan.)

Western Yunnan, Shan States, northern Siam, northern Laos, northern Tonkin.

**Dendrocopos cathpharius pernyi** (J. Verreaux)

*Picus Pernyii* J. Verreaux, Rev. et Mag. Zool. (2), 19, 1867, p. 271, pl. 16. (North China = Szechwan by designation of Bangs and Peters, 1928.)

Western China in provinces of Kansu, Sikang and Szechwan.

**Dendrocopos cathpharius innixus** (Bangs and Peters)

*Dryobates pernyi innixus* Bangs and Peters, Bull. Mus. Comp. Zool., 68, 1928, p. 334. (Chang Yang Hsien, Hupeh.)

Known only from central Hupeh.



**Dendrocopos hyperythrus marshalli** (Hartert)

*Dryobates hyperythrus marshalli* Hartert, Vög. pal. Fauna, 2, Heft 2, 1912, p. 926. (Murree.)

Northwestern Himalayas from Kashmir to Garhwal; western Tibet.

**Dendrocopos hyperythrus hyperythrus** (Vigors)

*Picus hyperythrus* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31, (1831), p. 23. (Himalayas, restricted to the eastern Himalayas by Hartert, 1912.)

*Dryobates hyperythrus sikkimensis* Ticehurst and Whistler, Ibis, 1924, p. 473. (Sikkim.)

*Dryobates hyperythrus miniakorum* Meise, Abh. Ber. Mus. Dresden, 18, 1934, no. 2, p. 53. (Tatsienlu, Szechwan [now called Kangting and situated in eastern Sikang].)

The Himalayas from Nepal and Sikkim eastward through Assam and the hills of northern Burma to western Yunnan and Sikang; northern Siam.

**Dendrocopos hyperythrus subrufinus** (Cabanis and Heine)

*Xylurgus subrufinus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 50, note. (Talien Bay and Tientsin, North China.)

*Hypopicus poliopsis manchuricus* Ingram, Ibis, 1909, p. 453. (Kirin Province, Manchuria.)

Central Manchuria and northern Korea southward through eastern and central China to northern Tonkin.

**Dendrocopos hyperythrus annamensis** (Kloss)

*Dryobates hyperythrus annamensis* Kloss, Bull. Brit. Orn. Cl., 46, 1925, p. 7. (Daban, Annam.)

Dalat region in southern Annam and southern Laos.

**Dendrocopos auriceps** (Vigors)

*Picus auriceps* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (6 Apr. 1831), p. 44. (Himalayas.)

*Picus brunnifrons* Vigors in Gould, Century of Birds Himalaya Mts., 1831, text to pl. 52.<sup>1</sup> (Hilly districts of India.)

Northwestern Himalayas from Afghanistan and Baluchistan to Kashmir, Gahrwal and Nepal.

**Dendrocopos atratus** (Blyth)

*Dryobates atratus* Blyth, Journ. As. Soc. Bengal, 18, pt. 2, 1849, p. 803. (Tenasserim.)

<sup>1</sup> The plate is lettered *Picus brunifrons*.

East Manipur Hills, Chin Hills, Arakan Yomas, Karen Hills, Southern Shan States, Tenasserim, northern Siam and Laos; Yunnan (one record.)

? ***Dendrocopos macei westermanni*** (Blyth)

*Picus Westermanni* Blyth, Ibis, 1870, p. 163. ("Himalaya".)

Western Himalayas; doubtfully distinct from *D. m. macei*.

***Dendrocopos macei macei*** (Vieillot)

*Picus Macei* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 80. (Bengal.)

Eastern Himalayas, eastern Bengal, the Eastern Ghats, Assam, and northern Burma east to the Hukawng Valley and Bhamo.

***Dendrocopos macei longipennis*** Hesse

*Dendrocopos analis longipennis* Hesse, Orn. Monatsb., 20, 1912, p. 82. (Bangkok, Siam.)

Burma from Pegu and Karenni to Tenasserim, and Siam as far as lat. 12° N., extending eastward to Cambodia and southern Annam.

***Dendrocopos macei andamanensis*** (Blyth)

*Picus andamanensis* Blyth, Journ. As. Soc. Bengal, 28, 1859, p. 412, note. (Port Blair, Andaman Islands.)

Andaman Islands.

***Dendrocopos macei montis*** (Robinson and Kloss)

*Dryobates analis montis* Robinson and Kloss, Journ. Fed. Malay States Mus., 11, 1923, p. 53. (Tjibodas, 4000-6000 feet, western Java.)

Hills of western Java.

***Dendrocopos macei analis*** (Bonaparte)

*Picus analis* "Temm." Bonaparte, Consp. Av., 1, 1850, p. 137. (Java.)

*Dendrocopus analis brevipennis* Hesse, Orn. Monatsb., 19, 1911, p. 182. (Java.)

Sumatra (?),<sup>1</sup> Java (except western), Bali.

***Dendrocopos mahrattensis aurocristatus*** (Tickell)

*Picus Aurocristatus* Tickell, Journ. As. Soc. Bengal, 2, 1833, p. 579. (Jungles of Borabhum and Dholbhum.)

*Picus Blanfordi* Blyth, Journ. As. Soc. Bengal, 32, 1863, p. 75. (Burma = Toungoo.)

<sup>1</sup> One doubtful record.

Northern India from Sind to Assam, extending southward to Burma as far as Toungoo; Laos (one record).

**Dendrocopos mahrattensis mahrattensis** (Latham)

*Picus Mahrattensis* Latham, Index Orn., Suppl., 1801, p. xxxi.  
(India = the Mahratta country, *ex* Gen. Syn., suppl. 2, p. 142, no. 7.)

India south of Poona on the west and the Eastern Ghats on the east; Ceylon.

**Dendrocopos minor comminutus** (Hartert)

*Dendrocopus minor comminutus* Hartert, Bds. Brit. Isles, 1907, p. 22. (Wingrave, England.)

Central and southern England.

**Dendrocopos minor hortorum** (C. L. Brehm)

*Picus hortorum* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 192. (Germany; type from Renthendorf.)

*Picus minor bacmeisteri* Kleinschmidt, Falco, 12, 1916, p. 14. (Northern France.)

*Picus minor silesiacus* Kleinschmidt, Orn. Germanica, 1917, p. 5. (Silesia.)

North-central Europe eastward to Poland and south to southern France and southern Germany.

? **Dendrocopos minor jordansi** (Götz)

*Dryobates minor jordansi* Götz, Jahresh. Ver. vaterl. Naturk., Württemberg, 81, 1925, p. 95. (Hallein, Salzburg.)

Mountainous parts of central Europe from the Tessiner Alps to the Tatras mountains, south to Hungary. Perhaps not separable from *D. m. hortorum*.

**Dendrocopos minor wagneri** (Domaniewski)

*Dryobates minor wagneri* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 6, 1927, p. 76. (Balta neagra, Romania.)

Romania.

**Dendrocopos minor hispaniae** (von Jordans)

*Dendrocopus minor hispaniae* von Jordans, Falco, 34, 1938, p. 52. (Linares de Rifrio, Salamanca, Spain.)

Spain.

**Dendrocopos minor ledouci** (Malherbe)

*Picus Ledouci* Malherbe, Bull. Soc. Hist. Nat. Moselle [Faune Orn. Algérie], 7<sup>m</sup> cahier, 1855, p. 22. (Algeria.)

Northern Algeria and northern Tunisia.

***Dendrocopos minor buturlini* (Hartert)**

*Dryobates minor buturlini* Hartert, Vög. pal. Fauna, 2, Heft. 2, 1912, p. 921. (Colle di Valdenza, Italy.)

Extreme southeastern France and all of Switzerland and Italy.

**? *Dendrocopos minor serbicus* (Buturlin)**

*Leuconotopicus minor serbicus* Buturlin, Poln'ii Opredeletel Ptits SSSR., 3, 1936, p. 205. (Velikh, Montenegro.)

*Dryobates minor Heinrichi* von Jordans, Mitt. K. Naturwiss. Inst. Bulgaria, 13, 1940, p. 131. (Kamchia, Bulgaria.)

Yugoslavia, Bulgaria and Greece; doubtfully distinct.

***Dendrocopos minor danfordi* (Hargitt)**

*Picus danfordi* Hargitt, Ibis, 1883, p. 172. (Zebil and Gozna, Taurus.)

Taurus Mts. in Asia Minor.

***Dendrocopos minor colchicus* (Buturlin)**

*Xylocopus minor colchicus* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 249. (Black Sea and Caspian Sea basins in northern Caucasus and Transcaucasia.)

*Dryobates minor harterti* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 6, 1927, p. 90. (Bielyj Ključ, Prov. Tiflis, Transcaucasus.) Not *Dendrocopus major harterti* Arrigoni, 1902.

*Dryobates minor ernsti* Domaniewski, Acta Orn. Mus. Zool. Polonici, 1, 1933, p. 80. New name for *D. m. harterti* Domaniewski, preoccupied.

The Caucasus.

***Dendrocopos minor quadrifasciatus* (Radde)**

*Picus minor* var *quadrifasciatus* Radde, Orn. Caucasia, 1884, p. 315. (Talysch Forests.)

Lenkoran.

***Dendrocopos minor hyrcanus* (Sarudny and Bilkewitsch)**

*Xylocopus minor hyrcanus* Sarudny and Bilkewitsch, Orn. Mitt., 4, 1913, p. 21. (Astrabad, Iran.)

Northern Iran in Provinces of Mazanderan and Astrabad.

***Dendrocopos minor morgani* (Sarudny and Loudon)**

*Dendrocopus minor morgani* Sarudny and Loudon., Orn. Jahrb., 15, 1904, p. 227. (Valley of the Schalil River, Bachtiaara, Iran.)

Southwestern Iran in the Schalil Valley.

**Dendrocopos minor minor** (Linné)

*Picus minor* Linné, Syst. Nat., ed. 10, 1, 1758, p. 114. (Europe, = Sweden *ex cit.* fr. Fn. Svec.)

*Dryobates minor transitivus* Loudon, Orn. Monatsb., 22, 1914, p. 77. (Livonia; the region of Pskov designated as type locality by Domanewski, 1927.)

*Dryobates minor lönnbergi* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 6, 1927, p. 77. (Karesuana, Lapland.)

*Dryobates minor menzbieri* Domaniewski, Ann. Zool. Mus. Polonici Hist. Nat., 6, 1927, p. 81. (Vicinity of Saratov, Russia.)

Scandinavian Peninsula, the Baltic states, northern and central European Russia and northern part of western Siberia.

**Dendrocopos minor mongolicus** (Buturlin)

*Xylocopus minor mongolicus* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 242. (Northern Dzungaria and northwestern and northern Mongolia; types from Dzungaria.)

*Xylocopus minor neglectus* Portenko, Bird Fauna extra-polar part of North Urals (Published by Akad. Nauk SSSR.), 1937, p. 80 (in Russian), p. 226 (English summary) (Omsk, Siberia.)

Southern part of western Siberia, Dzungaria, and Mongolia eastward to Kentei and Ulan Bator [= Urga].

**Dendrocopos minor kamtschatkensis** (Malherbe)

*Picus Kamtschatkensis* "Bp" Malherbe, Monogr. Piciées, 1, 1861, p. 115. (Okhotsk.)

Eastern Siberia from the Valley of the Yenissei to Anadyr and the Sea of Okhotsk and south to the Altai and Transbaikalia.

**Dendrocopos minor immaculatus** Stejneger

*Dendrocopos immaculatus* Stejneger, Proc. Biol. Soc. Washington, 2, 1884, p. 98. (Kamchatka.)

Anadyr and Kamchatka.

**Dendrocopos minor amurensis** (Buturlin)

*Xylocopus minor amurensis* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 243. (Little Khinghan Mts, the lower Amur and accidentally on Sakhalin = Mariinsk, lower Amur River.)

*Xylocopus minor minutillus* Buturlin, Ann. Mus. Zool. Acad. Imp. Sci. St. Pétersbourg, 13, 1908, p. 246. (Sidemi, Ussuri.)

*Xylocopus minor yamashinai* Momiyama, Annot. Orn. Orient., 1, 1928, p. 205. (Sakhalin.)



The Amur region, northern and central Manchuria, Ussuri, islands of Sakhalin and Hokkaido.

**Dendrocopos minor nojidoensis** (Yamashina)

*Dryobates minor nojidoensis* Yamashina, *Tori*, 6, 1930, p. 254.  
(Mt. Hakuto, Korea.)

Northeastern Korea.

**Dendrocopos canicapillus doerriesi** (Hargitt)

*Iyngipicus doerriesi* Hargitt, *Ibis*, 1881, p. 398. (Askold Island, Siberia.)

Southern Ussuri, eastern Manchuria, Korea (except northeastern).

**Dendrocopos canicapillus scintilliceps** (Swinhoe)

*Picus scintilliceps* Swinhoe, *Ibis*, 1853, p. 96. (Peking [= Peiping, Hopeh, China.] )

*Iyngipicus pygmæus clementii* LaTouche, *Bull. Brit. Orn. Cl.*, 40, 1919, p. 51. (Chang Yang Hsien, Hupeh.)

Northern and eastern China in provinces of Shensi, Hopeh, Shantung, Kiangsu, Anhwei, Chekiang and Hupeh.

**Dendrocopos canicapillus nagamichii** (LaTouche)

*Yungipicus scintilliceps kurodai* LaTouche, *Handb. Bds. E. China*, 2, pt. 1, 1931, p. 22. (Fukien.) Not *Dryobates leucotos kurodai* Götz, 1926.

*Yungipicus scintilliceps nagamichii* LaTouche, *Bull. Brit. Orn. Cl.*, 53, 1932, p. 22. New name for *Yungipicus scintilliceps kurodai* LaTouche, preoccupied.

China in provinces of Hunan, Fukien, northern Kwangtung, Kwangsi and central and western Yunnan.

**Dendrocopos canicapillus kaleënsis** (Swinhoe)

*Picus kaleënsis* Swinhoe, *Ibis*, 1863, p. 390. (Formosa.)

Island of Formosa.

**Dendrocopos canicapillus swinhoei** (Hartert)

*Iyngipicus scintilliceps swinhoei* Hartert, *Nov. Zool.*, 17, 1910, p. 221. (No-tai, Hainan.)

Island of Hainan.

**Dendrocopos canicapillus omissus** (Rothschild)

*Dryobates pygmæus omissus* Rothschild, *Bull. Brit. Orn. Cl.*, 43, 1922, p. 10. (Lichiang Range, Yunnan.)

?*Dryobates obscurior* Rothschild, Bull. Brit. Orn. Cl., 43, 1922, p. 10. (Lichiang Range, Yunnan.)<sup>1</sup>

*Dryobates semicoronatus szetschuanensis* Rensch. Abh. Ber. Mus. Dresden, 16, 1924, no. 2, p. 39. (Kwanhsien, Szechwan.)

Southeastern Sikang, Szechwan and northwestern Yunnan. The specimen recorded under this name by Yen (Ois. (n.s.), 7, 1937, p. 549) from Kwangsi should be reexamined.

***Dendrocopos canicapillus obscurus* (LaTouche)**

*Dryobates pygmæus obscurus* LaTouche, Bull. Brit. Orn. Cl., 42, 1921, p. 14. (Hokow, 300 feet, Yunnan.)

*Dryobates pygmæus permixtus* LaTouche, Bull. Brit. Orn. Cl., 43, 1922, p. 44. (Milati and near Yunnanfu, Yunnan.)

Southeastern Yunnan.

***Dendrocopos canicapillus tonkinensis* (Kuroda)**

*Yungipicus pygmæus tonkinensis* Kuroda, Bull. Brit. Orn. Cl., 44, 1924, p. 47. (Yenbai, Tonkin.)

Tonkin, northern Laos and northern Annam.

***Dendrocopos canicapillus semicoronatus* (Malherbe)**

*Picus semicoronatus* Malherbe, Bull. Soc. Hist. Nat. Moselle, 5<sup>e</sup> cahier, 1848-49 (1849), p. 22 in text (Himalayas = Darjeeling.)

Bhutan, Sikkim, eastern Assam.

***Dendrocopos canicapillus mitchellii* (Malherbe)**

*Picus pygmæus* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (1831), p. 44. (Himalayas) Not *Picus pygmæus* Lichtenstein, 1823.

*Picus mitchellii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 530. (Nepal.)

Nepal.

***Dendrocopos canicapillus canicapillus* (Blyth)**

*Picus canicapillus* Blyth, Journ. As. Soc. Bengal, 14, pt. 1, after 12 July, 1845, p. 197. (Arakan; type from Ramree Island.)

*Iyngipicus pumilus* Hargitt, Ibis, 1881, p. 599. (Southern Tenasserim.)

Burma from Cachar and Manipur to Tenasserim and northern Siam and extending through central and Peninsular Siam to the Pakchan Estuary; southern Annam.

<sup>1</sup> Known only from the unique type, probably an aberrant specimen.

**?Dendrocopos canicapillus delacouri** (deSchauensee)

*Dryobates hardwickii delacouri* deSchauensee, Proc. Acad. Nat. Sci. Philadelphia, 90, 1938, p. 110. (Ubol-Chanuman, lat. 15° 30' N., long. 105° E., Siam.)

Eastern Siam and possibly Cambodia; perhaps not different from *D. c. canicapillus*.

**Dendrocopos canicapillus auritus** (Eyton)

*Tripsurus auritus* Eyton, Ann. and Mag. Nat. Hist., 16, Oct., 1845, p. 229. (Malacca.)

*Iyngipicus canicapillus suffusus* Robinson and Kloss, Bull. Brit. Orn. Cl., 40, 1919, p. 14. (Kuala Lumpur, Selangor, Federated Malay States.)

Malay Peninsula.

**Dendrocopos canicapillus volzi** (Stresemann)

*Dryobates canicapillus volzi* Stresemann, Verh. Orn. Ges. Bayern, 14, 1920, p. 288. (Laut Tawar [Atjeh], Sumatra.)

Mountains of northwestern Sumatra.

**Dendrocopos canicapillus aurantiiventris** (Salvadori)

*Picus (Baeopipo) aurantiiventris* Salvadori, Atti R. Accad. Sci. Torino, 3, 1868, p. 524. (Borneo = Sarawak.)

*Iyngipicus picatus* Hargitt, Ibis, 1882, p. 41. (Northwestern Borneo.) Col. pl., Cat. Bds. Brit. Mus., 18, pl. 6, f. 1.

Northern and eastern Borneo.

**?Dendrocopos wattersi** (Salvadori and Giglioli)

*Iyngipicus wattersi* Salvadori and Giglioli, Atti R. Accad. Sci. Torino, 20, 1885, p. 825. (Formosa.)

Island of Formosa.<sup>1</sup>

**Dendrocopos kizuki wilderi** (Kuroda)

*Yungipicus kizuki wilderi* Kuroda, China Journ. Sci. and Arts, 5, 1926, p. 261. (Eastern Tombs, 75 miles northeast of Peiping, Hopeh.)

Northeastern Hopeh.

**Dendrocopos kizuki permutatus** (Meise)

*Dryobates kizuki permutatus* Meise, Abh. Ber. Mus. Dresden, 18, 1934, no. 2, p. 53. (Sidemi.)

<sup>1</sup> The authors of the 3d edition of the Handlist of Japanese birds consider this to be the young of *D. c. kaleënsis*, but without an examination of the type I am not prepared to accept this disposition. The original description does indicate a bird about the size of *kaleënsis* but the discrepancies, particularly the color and markings of the underparts are difficult to account for.

Ussuri, perhaps also southeastern Manchuria and northeastern Korea.

**Dendrocopos kizuki acutirostris** (Yamashina)

*Dryobates kizuki acutirostris* Yamashina, *Tori*, 7, 1931, p. 111.  
(Kongosan, Kogendo, eastern Korea.)

Eastern Korea.

**Dendrocopos kizuki kurilensis** (Bergman)

*Yungipicus kizuki kurilensis* Bergman, *Ark. Zool.*, 23B, June 1931, no. 3, p. 5. (Chinomizi, Kunashiri, Kurile Islands.)

*Yungipicus kizuki kurodae* Bergman, *Ark. Zool.*, 23B, June, 1931, no. 3, p. 5. (Yeterofu, Kurile Islands.) Not *Yungipicus scintiliceps kurodai* La Touche, May, 1931.

*Dryobates kizuki nagamichi* Bergman, *Zur Kenntnis Nordostasiat. Vög.*, 1935, p. 211. New name for *Yungipicus kizuki kurodae* Bergman, preoccupied. Not *Yungipicus scintiliceps nagamichii* La Touche, 1932.

Kurile Islands: Kunashiri and Yeterofu.

**Dendrocopos kizuki shikokuensis** (Kuroda)

*Yungipicus kizuki shikokuensis* Kuroda, *Annot. Zool. Japon.*, 10, 1922, p. 115. (Shusogun, Prov. Iyo, Shikoku.)

Southern Honshu and Shikoku.

**Dendrocopos kizuki kizuki** (Temminck)

*Picus kizuki* Temminck, *Pl. col.*, livr. 99, 1836. (Japan, = Kyushu.)

Kyushu.

**Dendrocopos kizuki matsudairai** (Kuroda)

*Yungipicus kizuki matsudairai* Kuroda, *Auk*, 38, 1921, p. 576. (Miyakeshima, Seven Islands of Izu, Japan.)

*Yungipicus kizuki harterti* Kuroda, *Bull. Brit. Orn. Cl.*, 43, 1923, p. 108. (Miyanoura, Yakushima.) Not *Dryobates major harterti* Arrigoni, 1902.

*Dryobates kizuki petersi* Kuroda, *Bull. Brit. Orn. Cl.*, 50, 1929, p. 18. New name for *Yungipicus kizuki harterti* Kuroda, invalid.

Seven Islands of Izu; Takushima.

**Dendrocopos kizuki seebohmi** (Hargitt)

*Yungipicus seebohmi* Hargitt, *Ibis*, 1884, p. 100. (Honshu and Hokkaido; restricted to the latter by Stejneger.)

*Yungipicus kizuki ijimae* Taka-Tsukasa, Dobuts. Zasshi, **34**, 1922, p. 292. (Rantomari, Maoka-gun, Sakhalin.) In Japanese.

Sakhalin and Hokkaido.

**Dendrocopos kizuki nippon** (Kuroda)

*Yungipicus kizuki nippon* Kuroda, Ibis, 1922, p. 88. (Nakahata, Gotemba, Prov. Suruga, Honshu.)

*Yungipicus kizuki saisiuensis* Momiyama, Tori, **5**, 1926, p. 111. (Gohyaku-rakan-zan, Quelpart Island.) In Japanese.

*Yungipicus kizuki siragiensis* Momiyama, Journ. Chosen Nat. Hist. Soc., no. 4, 1927, p. 2. (Koryo, Korea.) In Japanese.

*Yungipicus kizuki toohokuensis* Kumagai, Annot. Orn. Orient., **1**, 1928, p. 292. (Ooka-mura, Kuribara-gun, Pref. Miyagi, Honshu.)

Northern and central Honshu, Korea (part) and Quelpart Island.

**Dendrocopos kizuki kotataki** (Kuroda)

*Yungipicus kizuki kotataki* Kuroda, Ibis, 1922, p. 86. (Nita-mura, Tsushima.)

Oki and Tsushima.

**Dendrocopos kizuki amamii** (Kuroda)

*Yungipicus kizuki amamii* Kuroda, Ibis, 1922, p. 87 (in table), p. 88 (Amamishima, Ryukyu Islands.)

Northern Ryukyu Islands: Amami-Ōshima, Tokunoshima.

**Dendrocopos kizuki nigrescens** (Seeböhm)

*Iyngipicus kizuki nigrescens* Seeböhm, Ibis, 1887, p. 177. (Naha, Okinawa, Ryukyu Islands.)

Central Ryukyu Islands: Okinawa, Yagachishima.

**Dendrocopos kizuki orii** (Kuroda)

*Yungipicus kizuki orii* Kuroda, Bull. Brit. Orn. Cl., **43**, 1923, p. 109. (Sonai, Iriomote, Ryukyu Islands.)

Southern Ryukyu Islands: Iriomote.

**Dendrocopos moluccensis nanus** (Vigors)

*Picus nanus* Vigors, Proc. Comm. Zool. Soc. London, pt. 1, 1830-31 (1832), p. 172. (Himalayas.)

*Yungipicus hardwickii brunneiceps* Stuart Baker, Bull. Brit. Orn. Cl., **47**, 1926, p. 42. (Jelwara, Jodpur-Oodeypore road.)

Northern and central India.



**Dendrocopos moluccensis cinereigula** (Malherbe)

*Picus cinereigula* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 531. (Madras = Alleppy, Travancore.)

*Iyngipicus peninsularis* Hargitt, Ibis, 1882, p. 48. (Extreme south of India.)

Western side of the Bombay Presidency in southwestern India.

**Dendrocopos moluccensis hardwickii** (Jerdon)

*Picus (Dendrocopus) Hardwickii* Jerdon, Madras Journ. Lit. Sci., 13, 1844, pt. 2, p. 138. (Southern India, = Goomsoor, Ganjam.)

Eastern parts of Indian Peninsula.

**Dendrocopos moluccensis gymnophthalmus** (Blyth)

*Picus gymnophthalmus* [sic] Blyth, Journ. As. Soc. Bengal, 18, pt. 2, 1849, p. 804. (Ceylon.)

Ceylon.

**Dendrocopos moluccensis moluccensis** (Gmelin)

*Picus moluccensis* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 439. (Moluccas, = Malacca.)

*Yungipicus moluccensis tantulus* Riley, Proc. Biol. Soc. Washington, 40, 1927, p. 140. (Tanggaraeng, Mahakkam River, Borneo.)

Malay States, Sumatra, Riouw Archipelago, Billiton, Borneo. North Notoena Islands, Java, Bali (?).

**Dendrocopos moluccensis grandis** (Hargitt)

*Iyngipicus grandis* Hargitt, Ibis, 1882, p. 45. (Lombok and Flores; restricted to Lombok by Rensch, Mitt. Zool. Mus. Berlin, 17, 1931, p. 546.)

Lesser Soenda Islands: Lombok, Soembawa, Flores, Lomblen.

**Dendrocopos moluccensis excelsior** (Hartert)

*Iyngipicus grandis excelsior* Hartert, Nov. Zool., 5, 1898, p. 461. (Alor.)

Lesser Soenda Islands: Alor.

**Dendrocopos maculatus validirostris** (Blyth)

*Picus validirostris* Blyth, Cat. Bds. Mus. As. Soc., 1849, p. 64. (No locality; name for the bird described and referred to *P. nanus* Vigors by Blyth, Journ. As. Soc. Bengal, 14, p. 197.)

Philippine Islands: Luzon, Catanduanes, Lubang, Marinduque, Mindoro.

**Dendrocopos maculatus menagei** (Bourns and Worcester)

*Iyngipicus menagei* Bourns and Worcester, Occ. Papers Minnesota Acad. Nat. Sci., 1, 1894, p. 14. (Sibuyan.)

Philippine Islands: Sibuyan.

**Dendrocopos maculatus maculatus** (Scopoli)

*Picus maculatus* Scopoli, Del. Flor. et Faun. Insubr., fasc. 2, 1786, p. 89. (Antigua, Panay.)

Philippine Islands: Panay, Guimaras, Negros, Cebu.

**Dendrocopos maculatus leytenensis** (Steere)

*Yungipicus Leytenensis* Steere, List Bds. Mamms. Steere Exped., 1890, p. 9. (No locality, = Leyte.)

Philippine Islands: Samar, Leyte, Bohol.

**Dendrocopos maculatus fulvifasciatus** (Hartgitt)

*Iyngipicus fulvifasciatus* Hargitt, Ibis, 1881, p. 598. (Basilan and Mindanao; type from Zamboanga, Mindanao.)

Philippine Islands: Mindanao, Basilan.

**?Dendrocopos maculatus apo** (Hachisuka)

*Dryobates moluccensis apo* Hachisuka, Bds. Phil. Ids., pt. 3, 1934, p. 235. (Mt. Apo, Mindanao.)

Philippine Islands: confined to Mt. Apo, Mindanao. Doubtfully distinct from *D. m. fulvifasciatus*.

**Dendrocopos maculatus ramsayi** (Hargitt)

*Iyngipicus ramsayi* Hargitt, Ibis, 1881, p. 598. (Northeastern Borneo; error = Sulu Islands.)

Philippine Islands: Jolo, Tawi Tawi, Bongao.

**Dendrocopos maculatus siasiensis** (Mearns)

*Yungipicus siasiensis* Mearns, Proc. U.S. Nat. Mus., 36, 1909, p. 438. (Siasi Island.)

Philippine Islands: Siasi.

**Dendrocopos temminckii** (Malherbe)

*Picus Temminckii* Malherbe, Rev. et Mag. Zool. (2), 1, 1849, p. 529. (Celebes.)

Celebes (not recorded from the East Peninsula); Togian Islands.

**Dendrocopos obsoletus obsoletus** (Wagler)

*Picus obsoletus* Wagler, Isis von Oken, 22, 1829, col. 510. (Senegambia.)

*Dendropicos obsoletus camerunensis* Reichenow, Journ. f. Orn., 66, 1918, p. 437. (Uam and Bakari, Cameroons.) Not *Dendropicus camerunensis* Sharpe, 1907.

*Dendropicos obsoletus kirensis* Reichenow, Journ. f. Orn., 66, 1918, p. 437. (Redjaf on Kir, northeast Central Africa.)

*Yungipicus obsoletus batesi* Sclater, Bull. Brit. Orn. Cl., 42, 1921, p. 25. New name for *Dendropicos obsoletus camerunensis* Reichenow, 1918.

Gambia and Portuguese Guinea through the semi-arid belt of French Niger Colony and the French Sudan to the Northern Territory of Ivory Coast, Gold Coast, Nigeria and the interior of Cameroons, eastward to the Nile and the Uelle River district of the Belgian Congo.

***Dendrocopos obsoletus heuglini* (Neumann)**

*Jyngipicus obsoletus heuglini* Neumann, Journ. f. Orn., 52, 1904, p. 402. (Eritrea and Bogosland; type from Ghadi-Saati, Mareb River, Eritrea.)

Eritrea and the Red Sea Province of the Sudan.

**?*Dendrocopos obsoletus nigricans* (Neumann)**

*Jyngipicus obsoletos* [sic] *nigricans* Neumann, Journ. f. Orn., 52, 1904, p. 402. (Uma River, Konta, southern Ethiopia.)

Southern Ethiopia and northern Uganda; doubtfully distinct from *D. o. obsoletus*.<sup>1</sup>

***Dendrocopos obsoletus ingens* (Hartert)**

*Iyngipicus obsoletus ingens* Hartert, Nov. Zool., 7, 1900, p. 33. (Nairobi, Kenya Colony.)

Kenya Colony from Mt. Elgon and Turkana to Kitui and Nairobi.

***Dendrocopos obsoletus crateri* (Sclater and Moreau)**

*Yungipicus obsoletus crateri* Sclater and Moreau, Bull. Brit. Orn. Cl., 56, 1935, p. 15. (Southwest lip of the crater of Ngorongoro, 7500 feet, Mbulu dist., Tanganyika Territory.)

Confined to the crater of Ngorongoro in northern Tanganyika Territory.

***Dendrocopos dora* (Bates and Kinnear)<sup>2</sup>**

*Desertipicus dora* Bates and Kinnear, Bull. Brit. Orn. Cl., 55,

<sup>1</sup> Cf. Grant and Mackworth-Praed, Bull. B. O. C., 59, 1939, p. 53.

<sup>2</sup> I have not examined a specimen of this bird, but there is nothing in the original diagnosis that shows any structural characters by which it could possibly be separated from *Dendrocopos*; in fact the describers of *Desertipicus* themselves admit that it is a "color genus."

1935, p. 156. (Ukadh, 5000 feet, Taif-Mecca Road, Arabia.)  
Valleys of the Taif area, 4000-6000 feet, east of Mecca, Arabia.

**Dendrocopos albolarvatus albolarvatus** (Cassin)

*Leuconerpes albolarvatus* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 5, 1850, p. 106. (Oregon Canyon, Eldorado Co., California.)

North-central Washington and northern Idaho southward through the timbered areas of Oregon east of the Cascades, and western Idaho to northern California, in the inner coast ranges south to Colusa County and in the Sierra Nevada to Mt. Pinos, also on the eastern slopes of the Sierra Nevada in Nevada.

**Dendrocopos albolarvatus gravirostris** (Grinnell)

*Xenopicus gravirostris* Grinnell, Condor, 4, 1902, p. 89. (Sierra San Gabriel, Los Angeles Co., California.)

Resident on the higher mountains of southern California (San Gabriel, San Bernardino, San Jacinto, Santa Rosa, Volcan and Cuyamaca mountains).

**Dendrocopos villosus septentrionalis** (Nuttall)

*Picus septentrionalis* Nuttall, Man. Orn. U.S. & Canada, ed. 2, 1840, p. 684. (Northern parts of the continent as far as the 63<sup>d</sup> parallel as well as in the Oregon Territory, = Saskatchewan River, Canada.)

Central-southern Alaska, middle Yukon, central Mackenzie, northern Manitoba, James Bay and south-central Quebec, south to southeastern British Columbia, Montana, northern North Dakota, central Ontario and the north shore of the Gulf of St. Lawrence.

**Dendrocopos villosus terraenovae** (Batchelder)

*Dryobates villosus terraenovae* Batchelder, Proc. New England Zool. Cl., 4, 1908, p. 37. (Placentia, Newfoundland.)

Forested parts of Newfoundland.

**Dendrocopos villosus villosus** (Linné)

*Picus villosus* Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (North America = Raccoon, New Jersey.)

*Picus leucomelas* Boddaert, Table Pl. enlum., 1783, p. 21. (Canada, *ex* Daubenton, Pl. enlum, pl. 345, f. 1.)

Central North Dakota, Minnesota, southern Ontario, southern Quebec and Nova Scotia, south through eastern Colorado to central Texas, the Ozark region of Arkansas, southeastern Missouri, southern Tennessee, western North Carolina, and southeastern Virginia.

**Dendrocopos villosus audubonii** (Swainson)

*Picus Audubonii* Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 306. (Georgia.)

South Atlantic and Gulf States from eastern Texas, southern Arkansas, southern Tennessee and southeastern Virginia to the Gulf Coast and southern Florida.

**Dendrocopos villosus piger** (G. M. Allen)

*Dryobates villosus piger* G. M. Allen, Auk, 22, 1905, p. 124. (Grand Bahama, Bahama Islands.)

Bahama Islands: Grand Bahama, Mores Island, Abaco.

**Dendrocopos villosus maynardi** (Ridgway)

*Picus insularis* Maynard, Naturalist in Florida, 1, 1885, no. 4, p. 13. (No locality = New Providence, Bahama Islands.)  
Not *Picus insularis* Gould, 1862.

*Dryobates villosus maynardi* Ridgway, Man. No. Am. Bds., 1887, p. 282. New name for *Picus insularis* Maynard, preoccupied.

Bahama Islands: New Providence, Andros.

**Dendrocopos villosus picoideus** (Osgood)

*Dryobates picoideus* Osgood, No. Am. Fauna, no. 21, 1901, p. 44. (Cumshewa Inlet, Moresby Island, Queen Charlotte Islands, British Columbia.)

Queen Charlotte Islands.

**Dendrocopos villosus sitkensis** (Swarth)

*Dryobates villosus sitkensis* Swarth, Univ. Cal. Publ. Zool., 7, 1911, p. 315. (Etolin Island, Alaska.)

Coast region of southeastern Alaska and northern British Columbia, south at least to Calvert Island.

**Dendrocopos villosus harrisi** (Audubon)

*Picus Harrisi* Audubon, Bds. Am., folio ed., 4, 1838, pl. 417, figs. 8 and 9. (Columbia River *ex* Orn. Biogr., 5, 1839, p. 191, = near Fort Vancouver, Washington.)

Humid Pacific Coast belt from southern British Columbia and Vancouver Island to Humboldt County, California.

**Dendrocopos villosus hyloscopus** (Cabanis and Heine)

*Dryobates hyloscopus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 69, note. (San José, California.)

California from the Oregon line to the San Diegan district (replaced by *D. v. harrisi* in the northern humid coast belt), east to the northern Sierra Nevada, also extending northward through the



southern Sierra Nevada to about lat. 37° N. Absent from the great interior valleys and from the desert areas of the southeastern part of the state.

***Dendrocopos villosus scrippsae* (Huey)**

*Dryobates villosus scrippsae* Huey, Trans. San Diego Soc. Nat. Hist., 5, 1927, p. 9. (La Grulla, 7500 feet, Sierra San Pedro Mártir, Baja California.)

Northern Baja California in the Sierra Juárez and the Sierra San Pedro Mártir.

***Dendrocopos villosus orius* (Oberholser)**

*Dryobates villosus orius* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 609. (Quincy, California.)

South-central Washington southward through central Oregon to northeastern California and northwestern Nevada.

***Dendrocopos villosus monticola* (Anthony)**

*Dryobates villosus montanus* Anthony, Auk, 13, 1896, p. 32. (Boulder County, Colorado.) Not *Picus montanus* Brehm, 1831, which is *Dendrocopos major* (Linné).

*Dryobates villosus monticola* Anthony, Auk, 15, 1898, p. 54. New name for *D. v. montanus* Anthony, preoccupied.

Rocky Mountain region from south-central British Columbia, eastern Washington and central Montana, southward through northeastern Oregon, Idaho, Wyoming, northeastern Nevada, Utah and Colorado (except eastern) to north-central New Mexico, east to western South Dakota and western Nebraska.

***Dendrocopos villosus leucothorectis* (Oberholser)**

*Dryobates villosus leucothorectis* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 608. (Burley, New Mexico.)

Inyo, Panamint, Grapevine and eastern San Bernardino Mts. in California, higher mountains in southern Nevada, southern Utah, Arizona (except southwestern deserts and mountains in southeastern part), western and central New Mexico and Guadalupe Mts. in western Texas.

***Dendrocopos villosus icastus* (Oberholser)**

*Dryobates villosus icastus* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 612. (El Salto, Durango, México.)

Mountains of southeastern Arizona and extreme southwestern New Mexico, southward through eastern Sonora and western Chihuahua to Jalisco and Zacatecas.

**Dendrocopos villosus intermedius** (Nelson)

*Dryobates villosus intermedius* Nelson, Auk, 17, 1900, p. 259.  
(Villar, San Luís Potosí, México.)

México in states of Nuevo León, Tamaulipas, San Luís Potosí and Hidalgo.

**Dendrocopos villosus jardinii** (Malherbe)

*Picus (Leuconotopicus) Jardinii* Malherbe, Rev. Zool., 1845, p. 374. (México = central Veracruz.)

*Dryobates villosus enissomenus* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 614. (Omiteme, Guerrero, México.)

*Dryobates villosus hylobatus* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 617. (Huitzilac, Morelos, México.)

Highlands of southern México in states of Jalisco, Michoacán, Guerrero, México, Morelos, Puebla, Veracruz and Oaxaca.

**Dendrocopos villosus sanctorum** (Nelson)

*Dryobates sanctorum* Nelson, Auk, 14, 1897, p. 50. (Todos Santos, Guatemala.)

Highlands of Chiapas and Guatemala.

**Dendrocopos villosus parvulus** (Dickey and van Rossem)

*Dryobates villosus parvulus* Dickey and van Rossem, Proc. Biol. Soc. Washington, 42, 1929, p. 219. (Los Esesmiles, 8000 feet, Dept. Chalatenango, El Salvador.)

Los Esesmiles in northern El Salvador and adjacent parts of northern and western Honduras.

**Dendrocopos villosus fumeus** (Oberholser)

*Dryobates villosus fumeus* Oberholser, Proc. U.S. Nat. Mus., 40, 1911, p. 597 (in key), p. 619. (San Rafael del Norte, Nicaragua.)

Highlands of southern Honduras (region about Tegucigalpa) and northern Nicaragua.

**Dendrocopos villosus extimus** (Bangs)

*Dendrocopus villosus extimus* Bangs, Proc. New England Zoöl. Cl., 3, 1902, p. 33. (Boquete, 6000 feet, Volcán de Chiriquí, Panamá.)

Mountains of Costa Rica and western Panamá.

**Dendrocopos pubescens glacialis** (Grinnell)

*Dryobates pubescens glacialis* Grinnell, Univ. California Publ.

Zool., 5, 1910, p. 390, fig. 7. (Valdez Narrows, Prince William Sound, Alaska.)

Kenai Peninsula and shores and islands of Prince William Sound eastward along the coast of Alaska to the Taku River.

***Dendrocopos pubescens gairdnerii* (Audubon)**

*Picus Gairdnerii* Audubon, Orn. Biogr., 5, 1839, p. 317. (No locality, = near Fort Vancouver, Washington.)

Resident in the humid northwest coast region from southern British Columbia and Vancouver Island southward through western Washington and western Oregon to the Rogue River Valley, thence southwestward to Mendocino County, California.

***Dendrocopos pubescens turati* (Malherbe)**

*Picus Turati* Malherbe, Monogr. Piciées, 1, 1861, p. 125; 3, pl. 29, f. 5, 6, 7. (Near Monterey, California.)

Resident in southwestern Oregon (Josephine, Jackson and Klamath counties), the greater part of California west of the Sierra divide and deserts except the humid coast belt from Mendocino County northward, and west-central Nevada in the valleys of the Truckee, Carson and Walker rivers.

***Dendrocopos pubescens leucurus* (Hartlaub)**

*Picus leucurus* Hartlaub, Naumannia, 2, 1852, Heft 2, p. 55. (Rocky Mountains.)

*Dryobates homorus* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 65. (California.)

*Dryobates pubescens oreoecus* Batchelder, Auk, 6, 1889, p. 253. (Las Vegas Hot Springs, New Mexico.)

Rocky Mt. region from southern British Columbia, southward through eastern Washington, and the greater part of Montana, eastern Oregon to extreme northeastern California, northern and eastern Nevada, central Arizona, northern New Mexico and western Nebraska.

***Dendrocopos pubescens nelsoni* (Oberholser)**

*Dryobates pubescens nelsoni* Oberholser, Proc. U.S. Nat. Mus., 18, 1896, p. 549. (Nulato, Alaska.)

Resident in western Alaska, southwestern Mackenzie, southern Manitoba and James bay (Akimiski Island) south to extreme northern British Columbia, central Alberta and probably west-central Ontario (birds from the western Rainy River district are intermediate between this race and *medianus*). Southward irregularly in autumn and winter to eastern Colorado, Minnesota, Michigan, Kentucky and central New England.

**Dendrocopos pubescens microleucus** (Oberholser)

*Dryobates pubescens microleucus* Oberholser, Proc. Biol. Soc. Washington, 27, 1914, p. 43. (Fox Island River, Newfoundland.)

Newfoundland, and Anticosti Island in the Gulf of St. Lawrence.

**Dendrocopos pubescens medianus** (Swainson)

*Picus (Dendrocopos) medianus* Swainson, in Swainson and Richardson, Fauna Bor.-Am., 2, 1831 (1832), p. 308. (New Jersey.)

Resident from southeastern Alberta, southern Manitoba, southern Ontario, southern Quebec and Nova Scotia south to eastern Kansas, Missouri (except southeastern), northeastern Tennessee, western North Carolina and Virginia (except southeastern).

**Dendrocopos pubescens pubescens** (Linné)

*Picus pubescens* Linné, Syst. Nat., ed. 12, 1, 1766, p. 175. (North America, = South Carolina.)

Resident from eastern Texas, Oklahoma, southeastern Missouri, southern Tennessee, eastern North Carolina and southeastern Virginia, south to the Gulf Coast and Florida.

**Dendrocopos borealis borealis** (Vieillot)

*Picus borealis* Vieillot, Ois. Am. Sept., 2, 1807, p. 66, pl. 122. ("Northern United States" = Mount Pleasant, South Carolina, by designation of Wetmore, *infra*, p. 498.)

Eastern Oklahoma, southern Missouri, southeastern Kentucky and North Carolina, south to eastern Texas, the Gulf Coast and northern Florida.

**Dendrocopos borealis hylonomus** (Wetmore)

*Dryobates borealis hylonomus* Wetmore, Proc. U.S. Nat. Mus., 90, 1941, p. 498. (Seven miles southwest of Kissimmee, Florida.)

Central and southern Florida.

**Dendrocopos nuttallii** (Gambel)

*Picus Nuttalli* [sic] Gambel, Proc. Acad. Nat. Sci. Philadelphia, 1, 1843, p. 259. ("Near the Pueblo de los Angeles," = Los Angeles County, California.)

Resident in California west of the deserts and Sierra divide from Mendocino and Sonoma counties and the head of the Sacramento Valley, south to northwestern Baja California.

**Dendrocopos scalaris cactophilus** (Oberholser)

*Dryobates scalaris cactophilus* Oberholser, Proc. U.S. Nat. Mus., 41, 1911, p. 140 (in key), p. 152. (Tucson, Arizona.)



*Dryobates scalaris yumanensis* van Rossem, Condor, **44**, 1942, p. 24. (Laguna Dam, lower Colorado River, Imperial County, California.)

*Dryobates scalaris mojaviensis* van Rossem, Condor, **44**, 1942, p. 24. (Palmdale, Mojave Desert, Los Angeles County, California.)

Resident in the desert areas of southeastern California, southern Nevada, southwestern Utah and western Texas, south to the Colorado River Delta in northeastern Baja California, Sonora, Chihuahua and northern Durango; Tiburón Island.

***Dendrocopos scalaris eremicus* (Oberholser)**

*Dryobates scalaris eremicus* Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 141 (in key), p. 151. San Fernando, Baja California.)

*Dryobates nuttallii longirostrata* Huey, Trans. San Diego Soc. Nat. Hist., **5**, 1927, p. 27. (San Felipe, Baja California.)

Resident in northern Baja California from about lat 32° N. on the Pacific side, south to about lat 29° N.

***Dendrocopos scalaris lucasanus* (Baird)**

*Picus lucasanus* "Xantus" Baird, Proc. Acad. Nat. Sci. Philadelphia, 1859, p. 302. (Cape San Lucas, Baja California.)

Baja California from about lat. 28° 31' S. to the tip of the peninsula; Carmen, Santa Cruz, San José, Espiritu Santo, Santa Margarita and Esteban Islands.

***Dendrocopos scalaris graysoni* (Baird)**

*Picus (Dyctiopicus) scalaris* var. *graysoni* Baird, in Baird, Brewer and Ridgway, Hist. No. Am. Land Bds., **2**, 1874, p. 501 (in key), p. 517. (Western México up to western Arizona; type from the Tres Marias Islands.)

Tres Marias Islands.

***Dendrocopos scalaris sinaloensis* (Ridgway)**

*Dryobates scalaris sinaloensis* Ridgway, Man. No. Am. Bds., 1887, p. 285. (Near Mazatlan, Sinaloa.)

*Dryobates scalaris agnus* Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 150. (Camoá, Río Mayo, Sinaloa.)

Southern Sonora and Sinaloa.

***Dendrocopos scalaris centrophilus* (Oberholser)**

*Dryobates scalaris centrophilus* Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 157. (Ameca, Jalisco.)

Western México in states of Nayarít, southern Durango, Jalisco, western Zacatecas and western Michoacán.



**Dendrocopos scalaris azelus** (Oberholser)

*Dryobates scalaris azelus* Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 141 (in key), p. 147. (La Salada, Michoacán.)

West-central Michoacán, southwestern Puebla, Guerrero and west-central Oaxaca.

**Dendrocopos scalaris symplectus** (Oberholser)

*Dryobates scalaris symplectus* Oberholser, Proc. U.S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 155. (Mouth of the Nueces River, Texas.)

Southeastern Colorado and western Oklahoma, southward through Texas east of the Pecos and west of long. 97° W., to northern Coahuila, Nuevo León and Tamaulipas.

**Dendrocopos scalaris giraudi** (Stone)

*Picus Bairdi* "Slater" Malherbe, Monogr. Piciées, **1**, 1861, p. 118; **3**, pl. 27, figs. 7, 8. (México, = Hidalgo, cf. Oberholser 1911, *antea*, p. 159.) Not *Picus Bairdi* Giraud, Bds. Long Id., 1844, p. 178 in text.

*Dryobates scalaris giraudi* Stone, Auk, **37**, 1920, p. 146. New name for *Picus bairdi* Malherbe, preoccupied.

Southern Coahuila, San Luis Potosí, Guanajuato, Hidalgo, Puebla and México.

**Dendrocopos scalaris scalaris** (Wagler)

*Picus scalaris* Wagler, Isis von Oken, **22**, 1829, col. 511. (México, restricted to central Veracruz by Oberholser, *antea* 1911, p. 142.)

Northeastern Veracruz.

**? Dendrocopos scalaris ridgwayi** (Oberholser)

*Dryobates scalaris ridgwayi* Oberholser, Proc. U. S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 143. (Jaltipán, Veracruz.)

Coastal region of southeastern Veracruz; doubtfully distinct from *D. s. parvus*.

**Dendrocopos scalaris parvus** (Cabot)

*Picus parvus* Cabot, Boston Journ. Nat. Hist., **5**, 1845, p. 92. (Ticúl, Yucatán.)

Northern part of the Yucatán Peninsula; Cozumel Island.

**Dendrocopos scalaris percus** (Oberholser)

*Dryobates scalaris percus* Oberholser, Proc. U. S. Nat. Mus., **41**, 1911, p. 140 (in key), p. 144. (Comitán, Chiapas.)

Chiapas.

**Dendrocopos scalaris leucoptilurus** (Oberholser)

*Dryobates scalaris leucoptilurus* Oberholser, Proc. U. S. Nat. Mus., 41, 1911, p. 141 (in key), p. 146. (Pine Ridge, near Manatee Lagoon, British Honduras.)

British Honduras; some race of *D. scalaris* occurs on the Pacific coast of Honduras.

**Dendrocopos arizonae arizonae** (Hargitt)

*Picus arizonæ* Hargitt, Ibis, 1886, p. 115. (Santa Rita Mts., Arizona.)

Mountains of southern Arizona and southwestern New Mexico, south to northeastern Sonora and central Chihuahua.

**Dendrocopos arizonae fraterculus** (Ridgway)

*Dryobates arizonæ fraterculus* Ridgway, Man. No. Am. Bds., 1887, p. 286. (Sierra Nevada de Colima.)

Western México in southeastern Sonora and probably adjacent parts of Chihuahua, also in Sinaloa, Nayarít, Jalisco, Colima, Zacatecas and Michoacán; the birds recorded from northwestern Durango are probably referable here.

**Dendrocopos stricklandi aztecus** Moore

*Dendrocopos stricklandi aztecus* Moore, Proc. Biol. Soc. Washington, 59, 1946, p. 104. (Puerta Lengua de Vaca, 9350 feet, on the Michoacán-México border.)

Central México in states of Michoacán and México; Distrito Federál.

**Dendrocopos stricklandi stricklandi** (Malherbe)

*Picus (Leuconotopicus) Stricklandi* Malherbe, Rev. Zool., 1845, p. 373. (México, restricted to the Mt. Orizaba massif by Moore, 1946.)

Eastern México (at elevations from 9400–13000 feet) in states of Veracruz and Puebla.

**Dendrocopos mixtus cancellatus** (Wagler)

*Picus cancellatus* Wagler, Isis von Oken, 22, 1829, col. 510. (Mexico = São Paulo, Brazil.)

Southeastern Brazil in states of Goiás, Minas Gerais, São Paulo and Mato Grosso.

**Dendrocopos mixtus mixtus** (Boddaert)

*Picus mixtus* Boddaert, Table Pl. enlum., 1783, p. 47. ("Encenada," = Buenos Aires, *fide* Hellmayr, Verh. Orn. Ges. Bayern, 12, 1915, p. 212.)

Eastern Paraguay (?), Uruguay, and eastern Argentina in provs. of Corrientes, Santa Fé, Entre Ríos and Buenos Aires.

**Dendrocopos mixtus malleator** (Wetmore)

*Dyctiopicus mixtus malleator* Wetmore, Journ. Washington Acad. Sci., 12, 1922, p. 326. (Las Palmas, Chaco, Argentina.)

Western Paraguay, southeastern Bolivia, northern and western Argentina in provs. of Salta, Jujuy, Catamarca, Formosa, Chaco, Santiago del Estero, Tucumán, San Juan and La Rioja.

**Dendrocopos mixtus berlepschi** (Hellmayr)

*Dryobates mixtus berlepschi* Hellmayr, Verh. Orn. Ges. Bayern, 12, 1915, p. 212. (Mangrullo, Neuquén, Argentina.)

Western and southern Argentina in provs. of San Lúis, Córdoba, La Pampa, Neuquén and Río Negro.

**Dendrocopos lignarius** (Molina)

*Picus Lignarius* Molina, Sagg. Stor. Nat. Chili, 1782, p. 236, 343. (Chile.)

Bolivia in depts. of Cochabamba and Santa Cruz; Chile from Coquimbo to the Tres Montes Peninsula; western and southern Argentina in provs. of Córdoba, La Rioja, Neuquén, Río Negro and Chubut.

GENUS **PICOÏDES** LACÉPÈDE

*Picoïdes* Lacépède, Tabl. Ois., 1799, p. 7. Type, by subsequent designation, *Picus tridactylus* Gmelin i.e. *Picus tridactylus* Linné. (G. R. Gray, List Gen. Bds., 1840, p. 54.)

cf. Buturlin, in Buturlin and Démentiev, Poln'ii Opredelitel Ptits S.S.S.R., 3, 1936, p. 215–218.

Hartert, Vög. pal. Fauna, 2, 1912, p. 929–933.

Mikheiev, Bull. Soc. Nat. Moscou, Sect. Biol., 47, 1938, p. 167–173.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 289–302.

**Picoïdes tridactylus tridactylus** (Linné)

*Picus tridactylus* Linné, Syst. Nat., ed. 10, 1, 1758, p. 114. (Sweden, Alps of Lapland and Dalekarlia, and Hudson Bay = Sweden, ex Fn. Suec.)

*Picoides altaicus* Buturlin, Orn. Monatsb., 15, 1907, p. 10. (Altai.)

*Picoides tridactylus stechowi* Sachtleben, Anz. Orn. Ges. Bayern, no. 3, 1920, p. 20. (Zubrovo, Gouv. Grodno, Lithuania.)

*Picoides tridactylus kurodai* Yamashina, Tori, 6, 1930, p. 255. (Nojido, eastern slope of Mt. Hakuto, northern Korea.)

Scandinavia, Lapland and northern Russia; the mountains of southern Siberia (Altai, Sayan, etc.); Manchuria, Amurland, Ussuri and northeastern Korea.

**Picoïdes tridactylus alpinus** C. L. Brehm

*Picoides alpinus* C. L. Brehm, Handb. Naturg. Vög. Deutschl., 1831, p. 194. (Mountains of Switzerland.)

The Alps, and the Carpathians from Savoy southward to Yugoslavia and Romania.

**Picoïdes tridactylus crissoleucus** (Reichenbach)

*Apternus crissoleucus* "Brandt" Reichenbach, Handb. spec. Orn., cont. xii, 1854, Scansoriae c Picinae, p. 362, pl. DCXXXI, f. 4197-98. (Forests on the Irtysh.)

*Picoides uralensis* Buturlin, Orn. Monatsb., 15, 1907, p. 10. (Eastern Russia [Sura valleys] and West Siberia [Ob River].)

*Picoides tridactylus kolymensis* Buturlin, Orn. Mitt., 8, 1917, p. 13. (Olekminsk and Sredne Kolymsk, northeastern Siberia.)

Northern Siberia, north to lat. 68° N., east to the Kolyma and extending southward to southeastern Transbaikalia; in winter to the Altai, Kossogol and northern Mongolia.

**Picoïdes tridactylus tianschanicus** Buturlin

*Picoides tianschanicus* Buturlin, Orn. Monatsb., 15, 1907, p. 9. (Tien Shan.)

*Picoides dzungarius* Buturlin, Orn. Monatsb., 15, 1907, p. 9. (Northwestern Mongolia.)

*Picoides tridactylus korejewi* "Zar. et Loud." Menzbier, Distr. Zool. Turkestan, 1914, p. 42, note 1, *nomen nudum*.

Tien Shan, Dzungaria (Kunges River, Tekes River, etc.)

**Picoïdes tridactylus albidior** Stejneger

*Picoides albidior* Stejneger, Bull. U. S. Nat. Mus., no. 29, 1885, p. 321, 338, 342. (Kamchatka); Proc. U. S. Nat. Mus., 11, ♡ 1888, p. 168. (Kamchatka.)

Kamchatka.

**Picoïdes tridactylus sakhalinensis** Buturlin

*Picoides sakhalinensis* Buturlin, Orn. Monatsb., 15, 1907, p. 10. (Sakhalin and adjacent mainland at Udsk, lower Amur.)

*Picoides tridactylus sachalinensis* Lönnberg, Journ. Coll. Sci. Tokio, 23, 1908, art. 14, p. 41. (Chipesani, Sakhalin.)

Sakhalin.

**Picoïdes tridactylus inouyei** Yamashina

*Picoides tridactylus inouyei* Yamashina, Bull. Biogeograph. Soc. Japan, 13, 1943, p. 43. (Mitsumata, Kami-Shihoro, Katô District, Tokachi Province, Hokkaido.)

Known only from the type-locality in east-central Hokkaido, where believed to be resident.

**Picoïdes tridactylus funebris** Verreaux

*Picoides funebris* J. Verreaux, Nouv. Arch. Mus. Hist. Nat. Paris, 6, 1870, Bull., p. 33. (Mountains of Chinese Tibet = Sikang.)

Western China in provinces of Kansu, Sikang, Szechwan and Yunnan.

**Picoïdes tridactylus fasciatus** Baird

*Picoides Americanus* var *fasciatus* Baird, in Cooper's Orn. California, 1, 1870, p. 385. (No locality = Fort Simpson, Mackenzie River.)

*Picoides americanus fumipectus* Grinnell, Univ. California Publ. Zool., 5, 1909, p. 217. (Hooniah, Chichagof Island, Alaska.)

Northern Alaska, northern Yukon and northern and western Mackenzie, southward through British Columbia (including Vancouver Island), Alberta and western Saskatchewan, to the mountains of Oregon, northern Idaho and northwestern Montana.

**Picoïdes tridactylus dorsalis** Baird

*Picoides dorsalis* Baird, in Baird, Cassin and Lawrence, Rept. Expl. and Surv. R.R. Pacific, 9, 1858, p. xxviii, 97, 100. (Laramie Peak, Wyoming.)

Rocky Mountain region from northern Montana southward on the higher mountains in eastern Nevada (Snake Range), Utah and Colorado, to central Arizona and central New Mexico.

**Picoïdes tridactylus bacatus** Bangs

*Picoides americanus bacatus* Bangs, Auk, 17, 1900, p. 136. (Bangor, Maine.)

*Picoides americanus labradorius* Bangs, Auk, 17, 1900, p. 138. (Okkak, Labrador.)

Southern Mackenzie, northern Manitoba (Churchill), northern Quebec (Chimo) and northern Labrador (Okkak), and Newfoundland, south to northern Minnesota, east-central Ontario, northern New York (Adirondack Mountains), northern New Hampshire (White Mountains) and northern Maine. Casual in winter to southern British Columbia, southern Wisconsin, Michigan, southern Ontario, Long Island and Massachusetts.



**Picoïdes arcticus** (Swainson)

*Picus (Apternus) arcticus* Swainson, in Swainson and Richardson, Fauna Bor. Am., 2, 1831 (1832), p. 313. (Near the sources of the Athabasca River, lat. 57° N., eastern slope of the Rockies.)

*Picoides arcticus tenuirostris* Bangs, Auk, 17, 1900, p. 131, f.b. (Fort Klamath, Oregon.)

Resident in northern North America from central Alaska, southern Mackenzie, northern Manitoba, James Bay, northern Quebec (Richmond Gulf) southern Labrador (Natashkwan River), Anticosti Island and Newfoundland, south to the mountains of California (Siskyou and Warner Mountains), Cascade Range and the Sierra Nevada south to lat. 37° 30' N., western Nevada, northwestern Wyoming, southwestern South Dakota, northern Minnesota, northeastern Wisconsin and the upper peninsula of Michigan, southeastern Ontario (Muskoka district), the Adirondack Mountains, Green Mountains, White Mountains and northern Maine. Casual in winter south to Nebraska, Illinois, Indiana, Ohio, Pennsylvania and northern New Jersey.

GENUS **SAPHEOPIPO** HARGITT

*Sapheopipo* Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 6 (in key), p. 378. Type, by original designation and monotypy, *Picus noguchii* Seebohm.

cf. Kuroda, Avifauna of the Riu Kiu Islands, 1925, p. 102-103.

**Sapheopipo noguchii** (Seebohm)

*Picus noguchii* Seebohm, Ibis, 1887, p. 178, pl. 7. (Ryukyu Islands, type from "Great Loo Choo Island" i.e. Okinawa.)

Confined to Okinawa, central Ryukyu Islands.

GENUS **XIPHIDIOPICUS** BONAPARTE

*Xiphidiopicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 126. (separately paged reprint, Consp. Vol. Zygodact, p. 11.) Type, by monotypy, *Picus percussus* Temminck.

*Xiphidiopipo* Sundevall, Consp. Av. Picinarum, 1866, p. 115. Emendation.

cf. Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 182-185.

**Xiphidiopicus percussus percussus** (Temminck)

*Picus percussus* Temminck, Pl. col., livr. 66, 1826, pl. 390, 424. (Cuba.)

Island of Cuba.

**Xiphidiopicus percussus insulae-pinorum** Bangs

*Xiphidiopicus percussus insulae-pinorum* Bangs, Proc. Biol. Soc. Washington, 23, 1910, p. 173. (Santa Fé, Isle of Pines.)  
Isles of Pines.

GENUS **POLIPICUS** CASSIN

*Polipicus* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 196. Type, by monotypy, *Polipicus elliotii* Cassin.

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 457-460.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 587-589.

**Polipicus johnstoni schultzei** (Reichenow)

*Mesopicos schultzei* Reichenow, Orn. Monatsb., 20, 1912, p. 28.  
(Wassa, Fernando Po.)

Confined to Fernando Po.

**Polipicus johnstoni johnstoni** (Shelley)

*Poliopicus johnstoni* Shelley, Proc. Zool. Soc. London, 1887, p. 122. (Cameroon Mt., 6000 feet.)

Confined to Cameroon Mt.

**Polipicus johnstoni sordidatus** (Bates)

*Mesopicos johnstoni sordidatus* Bates, Bull. Brit. Orn. Cl., 49, 1928, p. 33. (Oku, 6000 feet, west of Kumbo, Cameroons.)

Oku district, Cameroons highlands.

**Polipicus elliotii** Cassin

*Polipicus Elliotii* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 197. (Muni River, Gaboon.)

Cameroons eastward across the Congo forest to Mt. Elgon, the base of Ruwenzori and eastern Uganda, south to northern Angola and the Kasai.

GENUS **MESOPICOS** MALHERBE

*Mesopicos* Malherbe, Mém. Acad. Nat. Metz, 30, 1848-49 (1849), p. 316, 340. Type, by subsequent designation, *Picus goertans* Gm. = *Picus goertae* P. L. S. Müller. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 92.)

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 450-453.

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 589-593.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 756-759.

Moreau, Bull. Brit. Orn. Cl., 57, 1936, p. 12-14.

Neumann, Orn. Monatsb., 34, 1926, p. 80-81.

**Mesopicos goertae königi** Neumann

*Mesopicos goertae königi* Neumann, Orn. Monatsb., 11, 1903, p. 181. (Mutmir, Berber Province, Sudan.)

French West Africa (Timbuktu) through Aïr and Lake Chad along the edge of the Sahara to the Nile Valley below Khartoum.

**Mesopicos goertae goertae** (P. L. S. Müller)

*Picus Goertae* P. L. S. Müller, Natursyst., Suppl., 1776, p. 91. (Senegal.)

*Dendrobates poicephalus* Swainson, Bds. W. Afr., 2, 1837, p. 154. (Western Africa.)

*Mesopicos goertae typicus* Reichenow, Orn. Monatsb., 8, 1900, p. 58. (Senegal.)

Senegal and the adjacent arid belt of French West Africa, east to the upper Niger.

**Mesopicos goertae agmen** Bates

*Mesopicos goertae agmen* Bates, Bull. Brit. Orn. Cl., 53, 1932, p. 74. (40 miles east of Wagadugu, upper Volta.)

Tree-savanna belt from Gambia and Portuguese Guinea through the Shari and Darfur to the White Nile and south to Sierra Leone, Liberia, Ivory Coast, Gold Coast and Nigeria. Recurs south of the equatorial forest from Gaboon to the Lualaba River.

**Mesopicos goertae centralis** Reichenow

*Mesopicos goertae centralis* Reichenow, Orn. Monatsb., 8, 1900, p. 59. (Ndussuma, west of Lake Albert.)

*Mesopicus goertae eremiæ* Stoneham, Ibis, 1926, p. 90. (Bombo, Uganda.)

*Mesopicus goertae acholiorum* Stoneham, Ibis, 1926, p. 90. (Near Padea, Chua district, Uganda.)

Savannas of Cameroons to the Ubangi and Uelle districts and the southern Bahr el Ghazal, south to Uganda and northwestern Kenya Colony and extending into the savannas east of the Ituri forest from Lake Albert to Ruanda.

**? Mesopicos goertae oreites** Grote

*Mesopicos goertae oreites* Grote, Orn. Monatsb., 31, 1923, p. 78. (Bofia region, Cameroons.)

Central Cameroons highlands; doubtfully distinct from *M. g. centralis*.

**Mesopicos goertae abessinicus** Reichenow

*Mesopicos goertae abessinicus* Reichenow, Orn. Monatsb., 8, 1900, p. 58. (Ethiopia, Kordofan and Sennar; type locality

fixed as Sereya, 15 miles north of Roseires, Blue Nile, eastern Sudan, by Grant and Mackworth-Praed, Bull. Brit. Orn. Cl., 69, 1939, p. 53.)

Eastern Sudan in Sennar and the valley of the Blue Nile; northern and central Ethiopia.

**Mesopicos goertae spodocephalus** (Bonaparte)

*Dendrobates spodocephalus* Bonaparte, Consp. Av., 1, 1850, p. 125. (West Africa = East Africa, i.e. Shoa, ex Rüppell, Vög. N.-O. Afr., p. 86.)

Southern Ethiopia.

**Mesopicos goertae rhodeogaster** (Fischer and Reichenow)

*Picus (Mesopicus) rhodeogaster* Fischer and Reichenow, Journ. f. Orn., 32, 1884, p. 180. (Massailand = northern Tanganyika Territory.)

Central districts of Kenya Colony and northern Tanganyika Territory.

**Mesopicos griseocephalus ruwenzori** (Sharpe)

*Mesopicus ruwenzori* Sharpe, Bull. Brit. Orn. Cl., 13, 1902, p. 8. (Ruwenzori.)

*Mesopicos griseocephalus kiwuensis* Reichenow, Vög. Afr., 3, 1905, nachtr., p. 824. (Lake Kivu.)

Highlands from Mt. Ruwenzori to the southern Kivu district; birds from southwestern Tanganyika Territory are not typical of this race.

**Mesopicos griseocephalus persimilis** Neumann

*Mesopicos griseocephalus persimilis* Neumann, Verh. Orn. Ges. Bayern, 20, 1933, p. 227. (Chipepe, Bailundu, Benguella.)

Highlands of Angola eastward through Katanga and Marungu to northern Nyasaland.

**Mesopicos griseocephalus kilimensis** Neumann

*Mesopicos griseocephalus kilimensis* Neumann, Orn. Monatsb., 34, 1926, p. 80. (Kifinica highland, 3000 meters, Mt. Kilimanjaro.)

Mountains of northern Tanganyika Territory (Meru, Kilimanjaro, Paré, Usambara and Uluguru).

**Mesopicos griseocephalus griseocephalus** (Boddaert)

*Picus griseocephalus* Boddaert, Table Pl. enlum., 1783, p. 49. (Cape of Good Hope, ex Daubenton, pl. 786, f. 2.)

Wooded areas of South Africa from northern Transvaal to Natal and Cape Province.

GENUS **THIRIPIAS** CABANIS AND HEINE

*Thiripias* Cabanis and Heine, Mus. Hein., Th. 4, 1863, Heft 2, p. 121. Type, by subsequent designation, *Picus namaquus* Lichtenstein. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 307.)

cf. Bannerman, Bds. Trop. W. Afr., 3, 1933, p. 453-457 (*Mesopicos pyrrhogaster* and *M. xantholophus*.)

Chapin, Bull. Am. Mus. Nat. Hist., 75, 1939, p. 595-597.

Jackson and Sclater, Bds. Kenya Col. and Uganda Prot., 2, 1938, p. 753-755.

Moreau, Bull. Brit. Orn. Cl., 57, 1936, p. 10-11.

**Thiripias namaquus schoënsis** (Rüppell)

*Picus (Dendrobates?) Schoënsis* Rüppell, Mus. Senckenbergianum, 3, 1842, p. 120. (Shoa.)

*Thiripias namaquus turkanae* Granvik, Rev. Zool. Bot. Africaines, 25, 1934, p. 54. (Turkana dist., northwestern Kenya Colony.)

Darfur, Anglo-Egyptian Sudan and southern Ethiopia, south to the Bahr el Ghazal, northeastern Uganda and the southern Turkana and western Suk districts of Kenya Colony.

**Thiripias namaquus saturatus** Berlioz

*Thiripias namaquus saturatus* Berlioz, Bull. Mus. Hist. Nat. Paris (2), 6, 1934, p. 230. (Bozoum, Ubangi-Shari.)

French Equatorial Africa.

**Thiripias namaquus decipiens** (Sharpe)

*Mesopicus decipiens* Sharpe, Journ. Linn. Soc., Zool., 17, 1884, p. 430. (Zanzibar; error, the type is from the Shimba Hills, southwest of Mombasa, Kenya Colony.)

*Thiripias namaquus intermedius* C. Grant, Bull. Brit. Orn. Cl., 35, 1915, p. 101. (Ugogo, Tanganyika Territory.)

*Mesopicus schoënsis semischoënsis* Lönnberg, Ark. Zool., 10, 1917, no. 24, p. 19. (Kasindi, Lake Edward.)

Southwestern Uganda, and Kenya Colony from the Tana River and Nairobi, south to the north shore of Lake Edward and central Tanganyika Territory.

**Thiripias namaquus namaquus** (A. Lichtenstein)

*Picus Namaquus* A. Lichtenstein, Cat. Rer. nat. rar., 1793, p. 17. (Interior of South Africa = Damaraland.)

*Mesopicos namaquus* var. *angolensis* Reichenow, Vög. Afr., 2, 1902, p. 190. (Malandje.)



Northern Angola, Katanga, Marungu and Nyasaland, south to Great Namaqualand and eastern Cape Province.

**Thripias xantholophus** (Hargitt)

*Dendropicus xantholophus* Hargitt, Ibis, 1883, p. 173. (Gaboon.)

*Mesopicos xantholophus chloroticus* van Someren, Bull. Brit. Orn. Cl., 41, 1921, p. 105. (Lugalambo, Uganda.)

Cameroons eastward across the Congo forest to Uganda and Mt. Elgon and south to northern Angola, southern Kasai and the Semliki Valley.

**Thripias pyrrhogaster** (Malherbe)

*Picus (Chloropicus) Pyrrhogaster*, Malherbe, Rev. Zool., 1845, p. 399. (South Africa = Sierra Leone.)

Upper Guinea forests from Sierra Leone to southern Nigeria; lower Guinea in the vicinity of Cameroon Mt.

GENUS **HEMICIRCUS** SWAINSON

*Hemicircus* Swainson, Classif. Bds., 2, 1837, p. 306. Type, by monotypy, *H. concretus* Pl. col. 90 = *Picus concretus* Temminck.

cf. Stuart Baker, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 82–86. Chasen, Bull. Raffles Mus., no. 11, 1936, p. 150.

Riley, Bull. U. S. Nat. Mus., no. 172, 1938, p. 238–239.

**Hemicircus concretus sordidus** (Eyton)

*Dendrocopus sordidus* Eyton, Ann. and Mag. Nat. Hist., 16, 1845, p. 229. (Malacca.)

Southern Tenasserim, Peninsular Siam and the Malay States.

**Hemicircus concretus coccometopus** (Reichenbach)

*Hemicircus coccometopus* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c. Picinae, 1854, p. 401, pl. DCLVI, fig. 4364–65. (Sumatra and Celebes = Sumatra.)

*Hemicircus brookeanus* Salvadori, Atti. R. Accad. Sci. Torino, 3, 1868, p. 525. (Borneo.)

Sumatra, Bangka, Borneo.

**Hemicircus concretus concretus** (Temminck)

*Picus concretus* Temminck, Pl. col., livr. 15, 1821, pl. 90. (Java.) Western and central Java.

**Hemicircus canente canente** (Lesson)

*Picus canente* Lesson, Cent. Zool., 1830, p. 215, pl. 73. (Pegu.)

Assam south of the Brahmaputra, Burma, Malay Peninsula, Siam (chiefly in the lowlands of the eastern provinces) and southern Indochina.

**Hemicircus canente cordatus** (Jerdon)

*Picus* (*Hemicircus*?) *cordatus* Jerdon, Madras Journ. Lit. Sci., 11, 1840, pt. 1, p. 211. (Forests of Malabar and in the Wynaad.)

West coast of India from Khandala to Malabar and Travancore.

GENUS **BLYTHIPICUS** BONAPARTE

*Blythipicus* Bonaparte, Ateneo Italiano, 2, 1854, p. 124. (Separately paged reprint, Consp. Vol. Zygodact., 1854, p. 9.) Type, by subsequent designation, *Picus* [*i.e.* *Hemicircus*] *rubiginosus* Swainson. (G. R. Gray, Cat. Gen. Subgen. Bds., 1855, p. 94.)

cf. Kinnear, Bull. Brit. Orn. Cl., 46, 1926, p. 72-74.

Stresemann, Arch. Naturg., 87, Abth. A., 1921, Heft 7, p. 98-99.

**Blythipicus pyrrhotis pyrrhotis** (Hodgson)

*Picus Pyrrhotis* Hodgson, Journ. As. Soc. Bengal, 6, 1837, p. 108. (Nepal.)

*Blythipicus pyrrhotis intermedius* Delacour, Bull. Brit. Orn. Cl., 47, 1927, p. 154. (Backan, northeastern Tonkin.)

Nepal, Assam, Burma and Tonkin, south to eastern Bengal, northern Siam, Tonkin and Laos.

**Blythipicus pyrrhotis cameroni** Robinson

*Blythipicus pyrrhotis cameroni* Robinson, Bull. Brit. Orn. Cl., 48, 1928, p. 57. (Gunong Mengkuang Lebah, 4800 feet, Selangor.)

Mountains of the Malay States.

**Blythipicus pyrrhotis annamensis** Kinnear

*Blythipicus pyrrhotis annamensis* Kinnear, Bull. Brit. Orn. Cl., 46, 1926, p. 72. (Langbian Peaks, Annam.)

Langbian Peaks in southern Annam, possibly Cambodia.

**Blythipicus pyrrhotis sinensis** (Rickett)

*Lepocestes sinensis* Rickett, Bull. Brit. Orn. Cl., 6, 1897, p. 1. (Kuatun, Fukien.)

Southeastern China in provinces of Fukien, Kwangtung and

Kwangsi; the specimen recorded from Tatsienlu, Szechwan (now = Kangting, Sikang) by Oustalet<sup>1</sup> should be reexamined.

**Blythipicus pyrrhotis hainanus** (Ogilvie-Grant)

*Lepocestes hainanus* Ogilvie-Grant, Ibis, 1899, p. 585. (Five-finger Mts., Hainan.)

Island of Hainan.

**Blythipicus rubiginosus parvus** Chasen and Kloss

*Blythipicus rubiginosus parvus* Chasen and Kloss, Journ. f. Orn., 1929, Ergänzungs. II, p. 112. (Bettotan, near Sandakan, British North Borneo.)

Sumatra and Borneo.

**Blythipicus rubiginosus rubiginosus** (Swainson)

*Hemicircus rubiginosus* Swainson, Bds. W. Africa, 2, 1837, p. 150. (Western Africa; error = Malacca, Hartlaub, Rev. Zool., 1844, p. 402.)

Southern Tenasserim, Peninsular Siam and the Malay Peninsula.

GENUS **CHRYSOCOLAPTES** BLYTH

*Chrysocolaptes* Blyth, Journ. As. Soc. Bengal, 12, pt. 2, 1843, p. 1004. Type, by subsequent designation, *C. strictus* = *Picus strictus* Horsfield. (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 442).<sup>2</sup>

cf. Stuart Baker, Ibis, 1919, p. 194–197.

—, Fauna Brit. India, ed. 2, Bds., 4, 1927, p. 76–82.

Chasen, Bull. Raffles Mus., no. 11, 1935, p. 149–150.

Hachisuka, Bds. Phil. Ids., 2, pt. 3, 1934, p. 239–245.

Stresemann, Arch. f. Naturg., 87, Abth. A, 1921, Heft 7, p. 94–97.

**Chrysocolaptes validus xanthopygius** Finsch

*Chrysocolaptes xanthopygius* Finsch, Notes Leyden Mus., 26, 1905, p. 34. (Upper Mahakan, Borneo.)

Malay Peninsula, Sumatra, Borneo, North Notoena Islands.

**Chrysocolaptes validus validus** (Temminck)

*Picus validus* Temminck, Pl. col., livr. 64, 1825, pl. 378, 402. (Java.)

Western and central Java.

<sup>1</sup> Bull. Mus. Hist. Nat. Paris, 4, 1898, p. 221.

<sup>2</sup> Gray, Cat. Gen. Subgen. Bds., 1855, p. 92 designates *Picus sultaneus* Hodgson, but this was not one of the originally included species.

**Chrysocolaptes festivus festivus** (Boddaert)

*Picus festivus* Boddaert, Table Pl. enlum., 1783, p. 43. (Goa, *ex* Daubenton, pl. 696.)

Indian Peninsula.

**Chrysocolaptes festivus tantus** Ripley

*Chrysocolaptes festivus tantus* Ripley, *Spolia Zeylanica*, 24, 1946, p. 214. (Embilipitiya, Ceylon.)

Ceylon.

**Chrysocolaptes lucidus sultaneus** (Hodgson)

*Picus Sultaneus* Hodgson, Journ. As. Soc. Bengal, 6, 1837, p. 105. (Nepal.)

Garhwal, Kuman, Nepal; the birds from northeastern Tonkin are referred to this race.<sup>1</sup>

**Chrysocolaptes lucidus guttacristatus** (Tickell)

*Picus Guttacristatus* Tickell, Journ. As. Soc. Bengal, 2, 1833, p. 578. (Jungles of Borabhum and Dholbhum.)

*Indopicus delesserti* Malherbe, Mém. Acad. Nat. Metz, 30, 1848-49 (1849), p. 343. (India.)

*Chrysocolaptes guttacristatus indo-malayicus* Hesse, Orn. Monatsb., 19, 1911, p. 182. (Southern Further India and Salanga Island; type from Salanga.)

Bengal, Bihar, Assam, Burma, Shan States, Siam south to the Lankawi Islands; central and southern Indochina.

**Chrysocolaptes lucidus chersonesus** Kloss

*Chrysocolaptes strictus chersonesus* Kloss, Ibis, 1918, p. 113. (Singapore Island and the coast of Johore opposite; the Si Karang, southern Johore specimen is designated as the type by Robinson, Ibis, 1919, p. 181.)

*Chrysocolaptes guttacristatus socialis* Koelz, Proc. Biol. Soc. Washington, 52, 1939, p. 78. (Jagalbed, Bombay Presidency.)

Southern India; extreme southern part of the Malay Peninsula, Singapore Island, Riouw Archipelago, Sumatra, western and central Java.<sup>2</sup>

**Chrysocolaptes lucidus stricklandi** (Layard)

*Brachypternus Stricklandi* Layard, Ann. and Mag. Nat. Hist. (2), 13, 1854, p. 449. (Gillymalle, Ceylon.)

Ceylon.

<sup>1</sup> Delacour and Jabouille, Ois. Indochine Franç., 2, 1931, p. 229.

<sup>2</sup> Distribution of *C. l. strictus* and *C. l. chersonesus* in Java see Chasen, *antea*, p. 150, note.

**Chrysocolaptes lucidus strictus** (Horsfield)

*Picus strictus* Horsfield, Trans. Linn. Soc. London, 13, pt. 1, 1821, p. 176. (Java.)

Java (chiefly eastern),<sup>1</sup> Bali, Kangean Islands.

**Chrysocolaptes lucidus andrewsi** Amadon

*Chrysocolaptes lucidus andrewsi* Amadon, Ibis, 1943, p. 332. (Sebattick Island, Borneo.)

Known only from Sebattick Island and from the coast of Borneo (Sandakan).

**Chrysocolaptes lucidus erythrocephalus** Sharpe

*Chrysocolaptes erythrocephalus* Sharpe, Trans. Linn. Soc. London, Zool. (2), 1, 1877, p. 315, pl. 46, f. 1. (Puerto Princesa Paláwan.)

Philippine Islands: Calamianes, Paláwan, Balabac.

**Chrysocolaptes lucidus haematribon** (Wagler)

*Picus Haematribon* Wagler, Syst. Av., 1827, Picus, sp. 95. (India? = Luzon.)

Philippine Islands: Luzon, Marinduque.

**Chrysocolaptes lucidus grandis** Hachisuka

*Chrysocolaptes lucidus grandis* Hachisuka, Suppl. Publ. Orn. Soc. Japan, no. 14, 1930, p. 179. (Polillo.)

Philippine Islands: Polillo.

**Chrysocolaptes lucidus xanthocephalus** Walden and Layard

*Chrysocolaptes xanthocephalus* Walden and Layard, Ibis, 1872, p. 99, pl. 4. (Negros.)

Philippine Islands: Masbate, Ticao, Panay, Guimaras, Negros.

**Chrysocolaptes lucidus rufopunctatus** Hargitt

*Chrysocolaptes rufopunctatus* Hargitt, Ibis, 1889, p. 231. (Panaón.). Col. pl., Cat. Bds. Brit. Mus., 18, pl. 12.

Philippine Islands: Samar, Leyte, Panaón, Bohol.

**Chrysocolaptes lucidus lucidus** (Scopoli)

*Picus lucidus* Scopoli, Del. Flor. et Faun. Insubr., 2, 1796, p. 89. (Mindanao, ex Sonnerat.)

*Chrysocolaptes montanus* Ogilvie-Grant, Bull. Brit. Orn. Cl., 16, 1905, p. 16. (Mt. Apo, 8000 feet, and Piso, Mindanao.)

Philippine Islands: Mindanao.

<sup>1</sup> See note under *C. l. chersonesus*, p. 226.



**Chrysocolaptes lucidus maculiceps** Sharpe

*Chrysocolaptes maculiceps* Sharpe, Trans. Linn. Soc. London, Zool. (2), 1, 1877, p. 314, pl. 46, f. 2. (Basilan.)

Philippine Islands: Basilan.

GENUS **PHLOEOCEASTES**<sup>1</sup> CABANIS

*Phloeoceastes* Cabanis, Journ. f. Orn., 10, 1862, p. 175, 176.

Type, by original designation, *Ph. robustus* (Ill. Licht.) = *Picus robustus* Lichtenstein.

cf. Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 354–356; 55, 1926, p. 367–369.

Cory, Field Mus. Nat. Hist. Publ., Zoöl. Ser., 13, pt. 2, no. 2, 1919, p. 462–468 (excl. *Ipocrantor*).

Pinto, Rev. Mus., Paulista, 22, 1938, p. 351–354.

Ridgway, Bull. U. S. Nat. Mus., no. 50, pt. 6, 1914, p. 170–181.

**Phloeoceastes guatemalensis regius** (Reichenbach)

*Campephilus regius* Reichenbach, Handb. spec. Orn., cont. xii, Scansoriae c Picinae, 1854, p. 393, pl. DCXLIX, f. 4331, 4332. (Papanla, Veracruz.)

Eastern and central México in states of Tamaulipas, San Luís Potosí, Veracruz and México.

**Phloeoceastes guatemalensis dorsofasciatus** Moore

*Phloeoceastes guatemalensis dorsofasciatus* Moore, Proc. Biol. Soc. Washington, 48, 1935, p. 113. (Gueroocoba, Sonora.)

Western México in states of Sonora, Sinaloa and Nayarit.

**Phloeoceastes guatemalensis nelsoni** (Ridgway)

*Scapanus guatemalensis nelsoni* Ridgway, Proc. Biol. Soc. Washington, 24, 1911, p. 34. (El Rincón, Guerrero.)

Western México in states of Jalisco, Colima, Michoacán, Guerrero and western Oaxaca.

**Phloeoceastes guatemalensis guatemalensis** (Hartlaub)

*Picus guatemalensis* Hartlaub, Rev. Zool., 1844, p. 214. (Guatemala.)

*Campophilus* [sic] *guatemalensis buxans*, Bangs, Auk, 18, 1901, p. 360. (Divala, Chiriquí, Panamá.)

Southern México in states of Chiapas, Tabasco, Campeche, Yucatán and Quintana Roo, southward over all of tropical Central America to western Panamá.

<sup>1</sup>Includes *Scapanus* Cabanis and Heine, 1863 and *Cniparchus* Cabanis and Heine, 1863.

**Phloeoceastes melanoleucos malherbii** (G. R. Gray)

*Campephilus malherbii* G. R. Gray, Gen. Bds., 2, 1845, p. [436], pl. CVIII. (No locality = Bogotá.)

Panamá from the eastern part of the provinces of Bocas del Toro and Chiriquí,<sup>1</sup> extending over the greater part of Colombia and to western Venezuela (Mérida region and Sierra de Perijá).

**Phloeoceastes melanoleucos melanoleucos** (Gmelin)

*Picus melanoleucos* Gmelin, Syst. Nat., 1, pt. 1, 1788, p. 426. (Surinam.)

Eastern base of the Eastern Andes of Colombia, eastern Ecuador and eastern Perú, east to the Guianas, Brazil to the Rio Tapajóz and northern Goiás; birds from eastern Bolivia not seen.

**Phloeoceastes melanoleucos gayaquilensis** (Lesson)

*Picus Gayaquilensis* Lesson, Écho du Monde Savant, 12, 1845, p. 920. (Guayaquil.)

*Phloeoceastes melanoleucos erythrobuccalis* Verheyen, Bull. Mus. Royal Hist. Nat. Belgique, 17, 1941, no. 17, p. 1. (Canchacoto-Occidente [= Canzacoto], western Ecuador.)

Western Ecuador and northwestern Perú.

**Phloeoceastes melanoleucos albirostris** (Vieillot)

*Picus albirostris* Vieillot, Nouv. Dict. Hist. Nat., 26, 1818, p. 69. (Paraguay.)<sup>2</sup>

Brazil from Mato Grosso, southern Goiás, and southern Baía southward; Paraguay; northwestern Argentina in Province of Salta.

**Phloeoceastes melanoleucos cearae** (Cory)

*Scapanus melanoleucus* [sic] *cearae* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 306. (Juá, near Iguatú, Ceará.)

Northeastern Brazil in states of Maranhão, Piauí, Ceará and northern Baía.

**Phloeoceastes leucopogon** (Valenciennes)

*Picus leucopogon* Valenciennes, Dict. Sci. Nat., éd. Levrault, 40, 1826, p. 178. (Brazil.)

<sup>1</sup> The ranges of *P. m. malherbii* and *P. g. guatemalensis* do not overlap but appear to adjoin without intergradation. *P. melanoleucos* and *P. guatemalensis* might be considered subspecies by some, but I believe that considering the two as comprising a "super species" is the more logical course.

<sup>2</sup> cf. Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 12, 1929, p. 417-418; Pinto, Rev. Mus. Paulista, 23, 1938, p. 515-516.

Southern Brazil in states of Rio Grande do Sul (no recent records), Bolivia (few records), northern Argentina in provinces of Salta, Catamarca, Tucumán, Formosa, Chaco, Misiones, Santiago del Estero, Santa Fé and Entre Ríos; Paraguay; Uruguay.

**Phloeoceastes rubricollis rubricollis** (Boddaert)

*Picus rubricollis* Boddaert, Table Pl. enlum., 1783, p. 37.  
(Cayenne, *ex* Daubenton, pl. 612.)

Colombia from the eastern base of the Eastern Andes from Villavicencio southward, southern Venezuela, the Guianas, and northern Brazil on the upper Rio Negro and south to Obidos.

**Phloeoceastes rubricollis trachelopyrus** (Malherbe)

*Megapicus trachelopyrus* Malherbe, Bull. Soc. Hist. Nat. Mosselle, 8<sup>e</sup> cahier, 1857, p. 1. (Perú.)

Eastern Perú, northern Bolivia in Dept. of La Paz, and western Brazil eastward at least to the Rio Juruá; birds from eastern Ecuador are intermediate between *P. r. rubricollis* and *P. r. trachelopyrus*.

**Phloeoceastes rubricollis olallae** (Gyldenstolpe)

*Scapanus trachelopyrus olallae* Gyldenstolpe, Kungl. Sv. Vet. Akad. Handl., 22, 1945, no. 3, p. 127. (Caxiricatuba, right bank of the lower Rio Tapajóz, Brazil.)

Brazil south of the Amazon from the right bank of the Rio Madeira east to Maranhão and south to the Yungas of Bolivia.

**Phloeoceastes robustus** (Lichtenstein)

*Picus robustus* Lichtenstein, Verz. ausgestop. Säug. Vög., 1819, p. 9.<sup>1</sup> (Brazil.)

*Picus robustus* Lichtenstein, Verz. Doubl. zool. Mus. Berlin, 1823, p. 10. (Baía.)

*Dryocopus percoccineus* Bonaparte, Consp. Av., 1, 1850, p. 134. (Buenos Aires.)

Brazil in states of Goiás, Minas Gerais, southern Baía, Espírito Santo, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul; Paraguay; northeastern Argentina in Territory of Misiones.

**Phloeoceastes pollens pollens** (Bonaparte)

*Picus pollens* Bonaparte, Atti Sesta Riunione Sci. Italiani, 1845, p. 406. (Colombia.)

Humid temperate and upper subtropical zones in Colombia and Ecuador.

<sup>1</sup> So cited by Sherborn; I have not been able to verify this citation. The name is usually quoted from the 1823 reference.

**Phloeoceastes pollens peruvianus** (Cory)

*Scapanus pallens* [sic] *peruviana* Cory, Field Mus. Nat. Hist. Publ., Orn. Ser., 1, 1915, p. 307. (Molinopampa, Perú.)

Humid temperate and upper subtropical zones of eastern Perú.

**Phloeoceastes haematogaster splendens** (Hargitt)

*Campophilus splendens* Hargitt, Ibis, 1889, p. 58. (Amazons, the type is a Bogotá trade skin; Chapman, Bull. Am. Mus. Nat. Hist., 36, 1917, p. 355, designates Puerto Valdivia, Antioquia, Colombia.)

Tropical zone of Panamá from Veraguas eastward and the Pacific slope of South America to northwestern Ecuador.

**Phloeoceastes haematogaster haematogaster** (Tschudi)

*Picus haematogaster* Tschudi, Arch. f. Naturg., 10, 1844, Bd. 1, p. 302. (Perú.)

Subtropical zone of the Andes from the Bogotá region to southern Perú.

GENUS **CAMPEPHILUS** G. R. GRAY<sup>1</sup>

*Campephilus* G. R. Gray, List Gen. Bds., 1840, p. 54. Type, by original designation, *C. principalis* (L.) = *Picus principalis* Linné.

*Megapicos* Malherbe, Mém. Acad. Nat. Metz, 30, 1848-49 (1849), p. 317. Type, by subsequent designation, *C. imperialis* = *Picus imperialis* Gould (Hargitt, Cat. Bds. Brit. Mus., 18, 1890, p. 460.)

cf. Hellmayr, Field Mus. Nat. Hist. Publ., Zool. Ser., 19, 1932, p. 250.

Ridgway, Bull. U.S. Nat. Mus., no. 50, pt. 6, 1914, p. 164-170.

**Campephilus principalis principalis** (Linné)

*Picus principalis* Linné, Syst. Nat., ed. 10, 1, 1758, p. 113. (North America = South Carolina, *ex* Catesby.)

Formerly occurred over the southeastern lowlands of the United States from North Carolina to Florida and in the Mississippi Valley to southern Indiana and southern Illinois, extending along the coast of Texas to the Brazos River. Now confined to a small forest area in Louisiana and rapidly nearing extinction.

**Campephilus principalis bairdii** Cassin

*Campephilus Bairdii* Cassin, Proc. Acad. Nat. Sci. Philadelphia, 1863, p. 322. (Monte Verde, Cuba.)

Island of Cuba; now very rare.

<sup>1</sup> Replaces *Campophilus* (emendation) of Sharpe's Hand-list and includes *Ipocrantor* Cabanis and Heine, 1863.

**Campephilus imperialis** (Gould)

*Picus imperialis* Gould, Proc. Comm. Zool. Soc. London, pt. 2, 1832, p. 140. ("California" = Jalisco, México.)

Sierra Madre of México in states of Sonora, Chihuahua, Durango, Zacatecas, Jalisco and Michoacán.

**Campephilus magellanicus** (King)

*Picus Magellanicus* King, Zool. Journ., 3, 1828, p. 430. (Port Famine, Straits of Magellan.)

Magellanic forest region of southern South America from Colchagua, Chile, on the west and from Lake Nahuel Huapí, Argentina on the east, south to Tierra del Fuego.



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